LLNL Livermore Site First Quarter 2010 Self-Monitoring Report

The following is the first quarter 2010 self-monitoring data for the treatment facilities and Lake Haussmann at the Lawrence Livermore National Laboratory (LLNL) Livermore Site.

The volumes of ground water and soil vapor treated and volatile organic compound (VOC) mass removed during the first quarter of 2010 are presented in Tables 1 and 2, respectively. An historical summary of VOC volume and mass removed are presented in Tables 3 and 4, respectively.

Attachment A presents ground water treatment facility and extraction well (ground water and soil vapor) VOC, chromium, bioassay, turbidity and chloride analyses (Tables A-1 through A-5). Metals and radiological analyses are presented in Tables A-6 and A-7, respectively. During the first quarter of 2010, all effluent sample analyses were within acceptable discharge limits.

Self-monitoring reports for all treatment facilities are presented in Attachment B. Monthly volumes of ground water extracted are shown in Attachment B; however, instantaneous flow rates are not shown for wells that are now only used for sampling and are not continuously pumped. The monthly volume shown for these wells is the quantity of water evacuated for sampling purposes. Annual effluent samples were collected and submitted for EPA Method 624 and 625 analyses from facilities where these compounds have been previously detected in the influent. These compounds were not detected in any of the annual samples submitted for analyses. Monitoring data for Lake Haussmann are presented in Attachment C.

A map showing Livermore Site treatment areas and treatment facility locations, and ground water elevation contour maps showing hydraulic capture zones for hydrostratigraphic units (HSUs) 1B, 2, 3A, 3B, 4, and 5, are presented in Attachment D. The contour maps for the individual HSUs are based on data collected during January 2010.

This work performed under the auspices of the U.S. Department of Energy by Lawrence Livermore National Laboratory under Contract DE-AC52-07NA27344.

Table 1. Volumes of ground water and soil vapor extracted and treated at the Livermore Site, January through March 2010.

Treatment Area[a]	Month	Volume of ground water extracted (Kgal)[b]	Volume of vapor extracted (Kft^3)[b]
TFA	January	8,786	-
	February	8,247	-
	March	10,000	-
TFB	January	2,174	-
	February	2,293	-
	March	2,719	-
TFC	January	707	-
	February	1,704	-
	March	2,066	-
TFD	January	3,530	1,914
	February	3,506	1,709
	March	4,547	2,013
TFE	January	2,052	1,818
	February	1,860	1,978
	March	2,345	2,357
TFG	January	687	-
	February	585	-
	March	755	-
TFH	January	814	1,700
	February	755	1,729
	March	1,053	1,619
TOTAL[c]		61,185	16,837

[a] Totals include ground water and soil vapor extracted from the following facilities:
TFA area: TFA, TFA-E, TFA-W
TFB area: TFB
TFC area: TFC, TFC-E, TFC-SE
TFD area: TFD, TFD-E, TFD-HPD, TFD-S, TFD-SE, TFD-SS, TFD-W, VTFD-ETCS, VTFD-HPD, VTFD-HS
TFE area: TFE-E, TFE-HS, TFE-NW, TFE-SE, TFE-SW, TFE-W, VTFE-ELM, VTFE-HS
TFG area: TFG-1, TFG-N
TFH area: TF406, TF406-NW, TF518-N, TF518-PZ, TF5475-1, TF5475-2, TF5475-3, VTF406-HS, VTF511, VTF518-PZ, VTF5475
TFF started operation in February 1993 for fuel hydrocarbon remediation. In August 1995, the regulatory agencies agreed that the vadose zone remediation was complete, and in October 1996 a No Further Action status was granted for the ground water.

[b] Totals are derived from individual extraction wells shown in Attachment B

[c] Rounded number

Kft^3 = thousands of cubic feet

Kgal = thousands of gallons

Table 2. VOC mass removed at the Livermore Site, January through March 2010.

Treatment Area[a]	VOC mass removed from ground water (kg)	VOC mass removed from soil vapor (kg)	Total VOC mass removed (kg) [b]
TFA	1.2	-	1.2
TFB	0.6	-	0.6
TFC	0.8	-	0.8
TFD	5.4	1.1	6.5
TFE	1.8	1.4	3.2
TFG	0.2	-	0.2
TFH	0.8	6.5	7.3
TOTAL[b]	10.8	9.0	19.8

Table 3. Historical summary of volumes of water and soil vapor removed at the Livermore Site through March 2010.

Treatment Area[a]	Volume of ground water extracted (Mgal)	Volume of vapor extracted (Kft^3)
TFA	1,668	-
TFB	393	-
TFC	404	-
TFD	876	63,652
TFE	324	138,710
TFG	65	-
TFH	143	186,882
TOTAL[b]	3,873	389,244

Table 4. Historical summary of VOC mass removed from water and soil vapor at the Livermore Site through March 2010.

Treatment Area[a]	VOC mass removed from ground water (kg)	VOC mass removed from soil vapor (kg)	Total VOC mass removed (kg) [b]
TFA	199	-	199
TFB	75	-	75
TFC	94	-	94
TFD	794	88	882
TFE	202	144	346
TFG	10	-	10
TFH	33	1,169	1,202
TOTAL[b]	1,407	1,401	2,808

[a] Refer to Table 1 footnote for facilities in each treatment facility area.
[b] Rounded number.

Abbreviations for Tables 2, 3 and 4:
Kft^3 = thousands of cubic feet.
Kg = Kilograms.
Mgal = millions of gallons.
VOC = Volatile organic compound.

Attachment A

VOC, Chromium, Bioassay, Turbidity, Chloride Analyses, Metals, and Radiological Analyses

Table A-1. VOC analyses of influent and effluent samples by treatment facility.

Sample Station	Date Sampled	Analytic Method	CCl_4 <-	$CHCl_3$ -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
TFA													
TFA-I001	04-JAN-10	E624	<1	**1.1**	<1	<1	**1.6**	<1	<1	**7.6**	<1	**0.73**	<1
TFA-I001	02-FEB-10	E601	<0.5	**1.2**	**0.74**	<0.5	**1.6**	<1	<0.5	**8**	<0.5	**0.81**	<0.5
TFA-I001	01-MAR-10	E601	<0.5	**1**	**0.65**	<0.5	**1.3**	<1	<0.5	**7.6**	<0.5	**0.77**	<0.5
TFA-E001	04-JAN-10	E624	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
TFA-E001	02-FEB-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFA-E001	01-MAR-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFA-E													
W-254	06-JAN-10	E601	<0.5	<0.5	<0.5	<0.5	**0.71**	<1	<0.5	**42**	<0.5	**1.3**	<0.5
STU06-I	03-FEB-10	E601	<0.5	<0.5	<0.5	<0.5	**0.63**	<1	<0.5	**44**	<0.5	**1.1**	<0.5
STU06-I	02-MAR-10	E601	<0.5	<0.5	<0.5	<0.5	**0.56**	<1	<0.5	**43**	<0.5	**1.2**	<0.5
STU06-E	06-JAN-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
STU06-E	03-FEB-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
STU06-E	02-MAR-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFA-W[a]													
W-404	21-JAN-10	E601	<0.5	<0.5	**1.5**	<0.5	**2.6**	<1	<0.5	**11**	<0.5	**0.5**	<0.5
W-404	18-FEB-10	E601	<0.5	<0.5	**1.6**	<0.5	**2.7**	<1	<0.5	**10**	<0.5	<0.5	<0.5
W-404	15-MAR-10	E601	<0.5	<0.5	**1.5**	<0.5	**2.6**	<1	<0.5	**10**	<0.5	**0.52**	<0.5
TFA-W-E	21-JAN-10	E624	<1	<1	**1.6**	<1	**2.7**	<1	<1	**10**	<1	<0.5	<1
TFB													
TFB-I002	04-JAN-10	E601	**0.52**	**2**	<0.5	<0.5	**1.6**	<1	**3.6**	**1.5**	<0.5	**13**	<0.5
TFB-I002	02-FEB-10	E601	**0.59**	**2.2**	<0.5	<0.5	**1.7**	<1	**4.5**	**1.7**	<0.5	**14**	<0.5
TFB-I002	01-MAR-10	E601	**0.6**	**2.3**	<0.5	<0.5	**1.6**	<1	**4.2**	**1.8**	<0.5	**16**	<0.5
TFB-E002	04-JAN-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFB-E002	02-FEB-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFB-E002	01-MAR-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFC													
TFC-I003	29-JAN-10	E601	<0.5	**0.52**	<0.5	<0.5	<0.5	<1	**2.4**	**4.4**	<0.5	**8.7**	<0.5
TFC-I003	10-FEB-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFC-I003	01-MAR-10	E601	<0.5	**0.59**	<0.5	<0.5	**0.58**	<1	**2.3**	**4**	<0.5	**7.8**	<0.5
TFC-E003	29-JAN-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5

Table A-1. VOC analyses of influent and effluent samples by treatment facility.

Sample Station	Date Sampled	Analytic Method	CCl_4 <-	$CHCl_3$ -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
TFC (cont.)													
TFC-E003	10-FEB-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFC-E003	01-MAR-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFC-E[b]													
MTU1-I	02-FEB-10	E601	<0.5	**16**	<0.5	<0.5	**1.2**	<1	**14**	**0.79**	<0.5	**9.6**	**4.7**
MTU1-I	03-MAR-10	E601	<0.5	**17**	<0.5	<0.5	**1.1**	<1	**12**	**0.67**	<0.5	**9.8**	**4.6**
MTU1-E	02-FEB-10	E601	<0.5	**0.71**	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
MTU1-E	03-MAR-10	E601	<0.5	**0.56**	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFC-SE													
PTU1-I	05-JAN-10	E601	<0.5	**6.6**	<0.5	<0.5	**3.5**	<1	**14**	<0.5	<0.5	**20**	**0.89**
PTU1-I	02-FEB-10	E601	<0.5	**6.7**	<0.5	<0.5	**4**	<1	**18**	**0.55**	<0.5	**20**	**0.95**
PTU1-I	02-MAR-10	E601	<0.5	**5.7**	<0.5	<0.5	**3.8**	<1	**18**	**0.58**	<0.5	**19**	**0.89**
PTU1-E	05-JAN-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU1-E	02-FEB-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU1-E	02-MAR-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFD													
TFD-I004	05-JAN-10	E601	**2.3**	**1.9**	<0.5	<0.5	**2.2**	<1	**0.52**	**3**	<0.5	**69**	**30**
TFD-I004	01-FEB-10	E601	**3**	**2**	<0.5	<0.5	**1.6**	<1	**0.68**	**2.2**	<0.5	**70**	**41**
TFD-I004	19-MAR-10	E601	**1.9**	**1.8**	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**32**	**66**
TFD-E004	05-JAN-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFD-E004	01-FEB-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFD-E004	19-MAR-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFD-E													
PTU8-I	06-JAN-10	E601	**3.6**	**2.2**	**0.64**	**1.6**	**9.5**	<1	<0.5	**11**	<0.5	**110**	<0.5
PTU8-I	01-FEB-10	E601	**4.5**	**2.4**	**0.65**	**1.6**	**11**	<1	<0.5	**16**	<0.5	**100**	<0.5
PTU8-I	02-MAR-10	E601	**4.6**	**2.4**	<0.5	**0.87**	**7**	<1	**0.5**	**12**	<0.5	**87**	<0.5
PTU8-E	06-JAN-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU8-E	01-FEB-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU8-E	02-MAR-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5

Table A-1. VOC analyses of influent and effluent samples by treatment facility.

Sample Station	Date Sampled	Analytic Method	CCl_4 <-	$CHCl_3$ -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
TFD-HPD													
PTU10-I	13-JAN-10	E601	**2.2**	**0.63**	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**53**	<0.5
PTU10-I	03-FEB-10	E601	**2.5**	**0.6**	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**53**	<0.5
PTU10-I	03-MAR-10	E601	**2.3**	**0.58**	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**49**	<0.5
PTU10-E	13-JAN-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU10-E	03-FEB-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU10-E	03-MAR-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFD-S													
PTU2-I	20-JAN-10	E601	**1.3**	**1.6**	<0.5	<0.5	**6.2**	<1	**1.4**	**7.5**	<0.5	**81**	<0.5
PTU2-I	11-FEB-10	E601	<0.5	<0.5	<0.5	<0.5	**6.4**	<1	**1.5**	**10**	<0.5	**53**	<0.5
PTU2-I	03-MAR-10	E601	**1.3**	**2**	<0.5	<0.5	**6.1**	<1	**1.4**	**7.7**	<0.5	**83**	<0.5
PTU2-E	20-JAN-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU2-E	11-FEB-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU2-E	03-MAR-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFD-SE													
PTU11-I	06-JAN-10	E601	<0.5	**1.6**	**1.8**	**5.9**	**22**	**1.2**	<0.5	**100**	<0.5	**180**	<0.5
PTU11-I	03-FEB-10	E601	<0.5	**0.51**	**1.2**	**1.3**	**5.2**	<1	<0.5	**22**	<0.5	**42**	<0.5
PTU11-I	02-MAR-10	E601	<0.5	**2.3**	**0.93**	**1.6**	**7.6**	<1	**0.95**	**29**	<0.5	**74**	<0.5
PTU11-E	06-JAN-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU11-E	03-FEB-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU11-E	02-MAR-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFD-SS													
PTU12-I	19-JAN-10	E601	**0.68**	**3.1**	**2**	**5.9**	**26**	**2.4**	<0.5	**41**	<0.5	**280**	**8.7**
PTU12-I	11-FEB-10	E601	**1.5**	**2.1**	**1.2**	**5**	**17**	**1.2**	<0.5	**23**	<0.5	**180**	**10**
PTU12-I	11-MAR-10	E601	**1.6**	**2**	**0.65**	**2.1**	**8.9**	<1	<0.5	**16**	<0.5	**100**	**19**
PTU12-E	19-JAN-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU12-E	11-FEB-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU12-E	11-MAR-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFD-W													
PTU6-I	11-JAN-10	E601	**0.56**	**3.8**	<0.5	<0.5	<0.5	<1	**0.5**	<0.5	<0.5	**5.6**	**99**
PTU6-I	17-FEB-10	E601	**0.58**	**4.6**	<0.5	<0.5	<0.5	<1	**0.76**	<0.5	<0.5	**5.2**	**100**
PTU6-I	15-MAR-10	E601	<0.5	**4.5**	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**4.5**	**49**

Table A-1. VOC analyses of influent and effluent samples by treatment facility.

Sample Station	Date Sampled	Analytic Method	CCl_4 <-	$CHCl_3$ -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
TFD-W (cont.)													
PTU6-E	11-JAN-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU6-E	17-FEB-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU6-E	15-MAR-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFE-E													
PTU3-I	13-JAN-10	E601	<0.5	**3.2**	<0.5	<0.5	**15**	<1	**12**	**22**	<0.5	**94**	<0.5
PTU3-I	16-FEB-10	E601	<0.5	**3.4**	<0.5	<0.5	**49**	<1	**13**	**81**	<0.5	**200**	<0.5
PTU3-I	11-MAR-10	E601	<0.5	**3.1**	<0.5	<0.5	**51**	<1	**14**	**82**	<0.5	**170**	<0.5
PTU3-E	13-JAN-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU3-E	16-FEB-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU3-E	11-MAR-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFE-HS[c]													
GTU07-I	07-JAN-10	E601	<0.5	**0.77**	<0.5	<0.5	**6.4**	<1	**18**	**29**	<0.5	**300**	<0.5
GTU07-E	07-JAN-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFE-NW													
PTU9-I	11-JAN-10	E601	<0.5	**2.3**	<0.5	<0.5	<0.5	<1	**1**	<0.5	<0.5	**9.3**	<0.5
PTU9-I	11-FEB-10	E601	**0.57**	**3**	<0.5	<0.5	<0.5	<1	**1.1**	<0.5	<0.5	**11**	<0.5
PTU9-I	03-MAR-10	E601	<0.5	**3**	<0.5	<0.5	<0.5	<1	**0.92**	<0.5	<0.5	**10**	<0.5
PTU9-E	11-JAN-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU9-E	11-FEB-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU9-E	03-MAR-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFE-SE													
W-359	11-JAN-10	E601	**3.3**	**0.77**	<0.5	<0.5	**19**	<1	**7.6**	**8**	<0.5	**140**	**0.83**
MTU04-I	03-FEB-10	E601	**4.2**	**0.9**	<0.5	<0.5	**23**	<1	**7.6**	**9.1**	<0.5	**180**	**1.2**
MTU04-I	02-MAR-10	E601	**4.4**	**0.94**	<0.5	<0.5	**22**	<1	**7**	**9.1**	<0.5	**200**	**1.2**
MTU04-E	11-JAN-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
MTU04-E	03-FEB-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
MTU04-E	02-MAR-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFE-SW													
MTU03-I	13-JAN-10	E601	<0.5	**0.75**	<0.5	<0.5	**1.8**	**3.3**	**0.94**	**0.7**	<0.5	**15**	<0.5
MTU03-I	03-FEB-10	E601	<0.5	**0.68**	<0.5	<0.5	**1.6**	**2.7**	**0.75**	**0.71**	<0.5	**14**	<0.5

Table A-1. VOC analyses of influent and effluent samples by treatment facility.

Sample Station	Date Sampled	Analytic Method	CCl_4 <-	$CHCl_3$ -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
TFE-SW (cont.)													
MTU03-I	03-MAR-10	E601	<0.5	**0.63**	<0.5	<0.5	**1.5**	**2.6**	**0.82**	**0.7**	<0.5	**13**	<0.5
MTU03-E	13-JAN-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
MTU03-E	03-FEB-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
MTU03-E	03-MAR-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFE-W													
MTU05-I	14-JAN-10	E601	<0.5	**1.1**	<0.5	<0.5	**2.8**	**1.6**	**14**	**5.7**	<0.5	**32**	<0.5
MTU05-I	03-FEB-10	E601	<0.5	**1.1**	<0.5	<0.5	**2.5**	**1.5**	**12**	**5.8**	<0.5	**32**	**0.51**
MTU05-I	03-MAR-10	E601	<0.5	**1**	<0.5	<0.5	**2.3**	**1.5**	**11**	**5.4**	<0.5	**32**	<0.5
MTU05-E	14-JAN-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
MTU05-E	03-FEB-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
MTU05-E	03-MAR-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFG-1													
W-1111	14-JAN-10	E601	**3.5**	**11**	<0.5	<0.5	**1.4**	<1	**0.64**	**1.4**	<0.5	**4.4**	<0.5
GTU01-I	16-FEB-10	E601	**3**	**8.9**	<0.5	<0.5	**1**	<1	<0.5	**1.2**	<0.5	**3.9**	<0.5
GTU01-I	04-MAR-10	E601	**2.9**	**9.4**	<0.5	<0.5	**1.1**	<1	**0.51**	**1.2**	<0.5	**3.9**	<0.5
GTU01-E	14-JAN-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
GTU01-E	16-FEB-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
GTU01-E	04-MAR-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFG-N													
MTU02-I	13-JAN-10	E601	<0.5	**5.2**	<0.5	<0.5	**0.98**	<1	**1.4**	**15**	<0.5	**4.7**	<0.5
MTU02-I	16-FEB-10	E601	<0.5	**4.5**	<0.5	<0.5	**0.88**	<1	**1.1**	**14**	<0.5	**4.4**	<0.5
MTU02-I	04-MAR-10	E601	<0.5	**4.2**	<0.5	<0.5	**0.92**	<1	**1.2**	**14**	<0.5	**4.5**	<0.5
MTU02-E	13-JAN-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
MTU02-E	16-FEB-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
MTU02-E	04-MAR-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TF406													
PTU5-I	12-JAN-10	E601	<0.5	**0.63**	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**4.8**	<0.5
PTU5-I	11-FEB-10	E601	<0.5	**0.88**	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**8.1**	<0.5
PTU5-I	03-MAR-10	E601	<0.5	**0.76**	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**6.8**	<0.5
PTU5-E	12-JAN-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5

Table A-1. VOC analyses of influent and effluent samples by treatment facility.

Sample Station	Date Sampled	Analytic Method	CCl_4 <-	$CHCl_3$ -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
TF406 (cont.)													
PTU5-E	11-FEB-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU5-E	03-MAR-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TF406-NW													
W-1801	12-JAN-10	E601	<0.5	**1.9**	<0.5	<0.5	<0.5	<1	**6.2**	**0.71**	<0.5	**28**	<0.5
GTU03-I	11-FEB-10	E601	<0.5	**2.5**	<0.5	<0.5	<0.5	<1	**6.3**	**0.79**	<0.5	**33**	<0.5
GTU03-I	08-MAR-10	E601	<0.5	**2**	<0.5	<0.5	<0.5	<1	**6.9**	**0.79**	<0.5	**33**	<0.5
GTU03-E	12-JAN-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
GTU03-E	11-FEB-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
GTU03-E	08-MAR-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TF518-N[d]	---	---	--	--	--	--	--	--	--	--	--	--	--
TF5475-1[e]	---	---	--	--	--	--	--	--	--	--	--	--	--
TF5475-2													
GTU09-I	06-JAN-10	E601	**1.8**	**20**	**0.64**	**2.4**	**18**	<1	**6.8**	**34**	<0.5	**310**	<0.5
GTU09-I	02-FEB-10	E601	**2**	**22**	**0.7**	**2.4**	**21**	<1	**8**	**35**	<0.5	**300**	<0.5
GTU09-I	03-MAR-10	E601	**1.7**	**17**	**0.5**	**2.1**	**16**	<1	**8.3**	**27**	<0.5	**200**	<0.5
GTU09-E	06-JAN-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
GTU09-E	02-FEB-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
GTU09-E	03-MAR-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TF5475-3[f]	---	---	--	--	--	--	--	--	--	--	--	--	--

Notes on following page.

Table A-1. VOC analyses of influent and effluent samples by treatment facility.

[a] TFA-W effluent is discharged to the Livermore Water Reclamation Plant in accordance with Permit #151OG (2006-2008). The discharge limit for Total Toxic Organics is 1.0 mg/L.

[b] TFC-E did not operate during January due to resin columns requiring conditioning.

[c] TFE-HS did not operate during February and March due to pump and controller replacement.

[d] TF518-N did not operate during this reporting period due to mixed waste disposition issues.

[e] TF5475-1 did not operate during this reporting period due to mixed waste disposition issues.

[f] TF5475-3 did not operate during this reporting period due to mixed waste disposition issues.

Notes:

CCl_4 = Carbon tetrachloride

$CHCl_3$ = Chloroform

1,1-DCA = 1,1-Dichloroethane

1,2-DCA = 1,2-Dichloroethane

1,1-DCE = 1,1-Dichloroethylene

1,2-DCE = 1,2-Dichloroethylene

Freon 113 = Trichlorotrifluoroethane

PCE = Tetrachloroethylene

1,1,1-TCA = 1,1,1-Trichloroethane

TCE = Trichloroethene

Freon 11 = Trichlorofluoromethane

VOC = volatile organic compound

Numbers in **BOLD** print indicate positive values above the detection limit.

Table A-2. VOC analyses of samples from treatment facility extraction wells.

Extraction Well	Date Sampled	Analytic Method	CCl_4 <-	$CHCl_3$ -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
TFA													
W-109	11-JAN-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	**1.9**	<0.5	<0.5	<0.5
W-262[a]	29-JAN-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	**0.56**	<0.5	<0.5	<0.5
W-408	11-JAN-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	**0.72**	<0.5	<0.5	<0.5
W-415	11-JAN-10	E601	<0.5	**0.97**	**0.86**	<0.5	**1.8**	<1	<0.5	**12**	<0.5	**1.1**	<0.5
W-457	11-JAN-10	E601	<0.5	<0.5	**1.1**	<0.5	**1.2**	<1	<0.5	**7.9**	<0.5	**0.52**	<0.5
W-518[a]	24-APR-08	E601	<0.5	<0.5	**7.3**	<0.5	**4**	<1	<0.5	**6.3**	<0.5	**0.67**	<0.5
W-522[a]	24-APR-08	E601	<0.5	<0.5	**2.3**	<0.5	**1.5**	<1	<0.5	**3.5**	<0.5	<0.5	<0.5
W-605	11-JAN-10	E601	<0.5	**0.52**	**1.5**	<0.5	**1.8**	<1	<0.5	**20**	<0.5	**1**	<0.5
W-614	11-JAN-10	E601	<0.5	**0.69**	<0.5	<0.5	<0.5	<1	<0.5	**8.1**	<0.5	<0.5	<0.5
W-712	11-JAN-10	E601	**3**	**2.9**	**1.2**	<0.5	**3.9**	<1	<0.5	**1.8**	<0.5	**3.5**	<0.5
W-714	11-JAN-10	E601	<0.5	<0.5	<0.5	<0.5	**0.51**	<1	<0.5	**10**	<0.5	<0.5	<0.5
W-903[a]	29-JAN-08	E601	<0.5	<0.5	**1.8**	<0.5	**1.4**	<1	<0.5	**7.5**	<0.5	**0.52**	<0.5
W-904	02-FEB-10	E601	<0.5	<0.5	**1.1**	<0.5	**1.6**	<1	<0.5	**9.1**	<0.5	<0.5	<0.5
W-1001	02-FEB-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
W-1004	11-JAN-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	**3.9**	<0.5	<0.5	<0.5
W-1009	11-JAN-10	E601	**1.3**	**5.2**	**0.91**	<0.5	**3.8**	<1	**0.65**	**13**	<0.5	**2**	<0.5
TFA-E													
W-254	06-JAN-10	E601	<0.5	<0.5	<0.5	<0.5	**0.71**	<1	<0.5	**42**	<0.5	**1.3**	<0.5
TFA-W													
W-404	15-MAR-10	E601	<0.5	<0.5	**1.5**	<0.5	**2.6**	<1	<0.5	**10**	<0.5	**0.52**	<0.5
TFB													
W-357	04-JAN-10	E601	**1.6**	**2.6**	<0.5	<0.5	**1.8**	<1	**5.7**	**1.2**	<0.5	**37**	<0.5
W-610	04-JAN-10	E601	<0.5	<0.5	<0.5	<0.5	**2**	<1	**2.5**	**0.92**	<0.5	**2.4**	<0.5
W-620	04-JAN-10	E601	<0.5	**1.4**	<0.5	<0.5	**1.9**	<1	**2.6**	**1.4**	<0.5	**5.3**	<0.5
W-621	04-JAN-10	E601	<0.5	**0.7**	<0.5	<0.5	**0.64**	<1	**1.3**	<0.5	<0.5	**3.8**	<0.5
W-655	04-JAN-10	E601	<0.5	**0.78**	<0.5	<0.5	<0.5	<1	**3.3**	<0.5	<0.5	**2.4**	<0.5
W-704	04-JAN-10	E601	**0.59**	**3.4**	<0.5	<0.5	**2.4**	<1	**5.7**	**3**	<0.5	**21**	<0.5
W-1423	04-JAN-10	E601	**0.77**	**4.8**	<0.5	<0.5	**3.8**	<1	**3.7**	**1.7**	<0.5	**8.7**	<0.5
TFC													
W-701[a]	12-OCT-09	E601	<0.5	**2.2**	<0.5	<0.5	**1.9**	<1	**34**	**0.59**	<0.5	**11**	<0.5
W-1015	10-FEB-10	E601	<0.5	**0.56**	<0.5	<0.5	**1.3**	<1	**2.4**	**1.2**	<0.5	**6.5**	<0.5
W-1102[a]	06-JUL-09	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	**8**	<0.5	<0.5	**2.4**	<0.5
W-1103	10-FEB-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**1.6**	<0.5
W-1104	10-FEB-10	E601	<0.5	**0.54**	<0.5	<0.5	<0.5	<1	**1.9**	**5.6**	<0.5	**9.4**	<0.5
W-1116	10-FEB-10	E601	<0.5	**0.67**	<0.5	<0.5	<0.5	<1	**5.7**	**1.9**	<0.5	**4**	<0.5

Table A-2. VOC analyses of samples from treatment facility extraction wells.

Extraction Well	Date Sampled	Analytic Method	CCl_4 <-	$CHCl_3$ -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
TFC-E													
W-368	02-FEB-10	E601	<0.5	**12**	<0.5	<0.5	**0.92**	<1	**23**	**2.9**	<0.5	**19**	**8.7**
W-413	02-FEB-10	E601	<0.5	**16**	<0.5	<0.5	**1.2**	<1	**13**	<0.5	<0.5	**7.7**	**4.1**
TFC-SE													
W-1213	05-JAN-10	E601	<0.5	**4.2**	<0.5	<0.5	**5**	<1	**11**	<0.5	<0.5	**22**	<0.5
W-2201	05-JAN-10	E601	<0.5	**9.2**	<0.5	<0.5	**3.3**	<1	**18**	**0.79**	<0.5	**21**	**1.4**
TFD													
W-351	05-JAN-10	E601	**8.3**	**1.7**	<0.5	**0.97**	**4.8**	<1	**1.6**	**5.3**	<0.5	**170**	**8.2**
W-653	05-JAN-10	E601	**27**	**9.2**	<0.5	<0.5	**0.98**	**1**	**2**	**0.83**	<0.5	**1100**	<0.5
W-906	05-JAN-10	E601	<0.5	**0.65**	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**5.3**	**0.74**
W-907-2[a]	08-APR-09	E601	<0.5	**7.2**	<0.5	**0.6**	**4.2**	<1	**1.6**	**7.8**	<0.5	**92**	<0.5
W-1206	05-JAN-10	E601	**0.72**	**1.4**	<0.5	<0.5	**0.78**	<1	<0.5	**1**	<0.5	**24**	**2.3**
W-1208	05-JAN-10	E601	**2.6**	**2**	<0.5	**0.59**	**2.6**	<1	**0.59**	**3.4**	<0.5	**78**	**41**
W-2011[a]	27-AUG-09	E601	<0.5	**0.56**	<0.5	<0.5	<0.5	**12**	<0.5	<0.5	<0.5	**4.8**	<0.5
W-2101	05-JAN-10	E601	**12**	**3.9**	<0.5	<0.5	**0.52**	<1	**0.76**	**0.55**	<0.5	**420**	<0.5
W-2102[a]	28-AUG-09	E601	**9.1**	**7.5**	<0.5	<0.5	**0.51**	**2.3**	**2.6**	**0.54**	<0.5	**660**	<0.5
TFD-E													
W-1253[ab]	11-FEB-08	E601	**6**	**6.2**	<5	<5	**16**	<10	**17**	**12**	<5	**2300**	<5
W-1255[a]	11-FEB-08	E601	**4.4**	**2**	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**260**	<0.5
W-1301	06-JAN-10	E601	**4**	**2.4**	**2.6**	**8.2**	**71**	**1**	**0.59**	**57**	<0.5	**400**	<0.5
W-1303[a]	14-OCT-08	E601	**3**	**2.9**	**0.8**	**3.1**	**7.2**	<1	<0.5	**6.7**	<0.5	**150**	**23**
W-1306	06-JAN-10	E601	**4.7**	**2.9**	<0.5	<0.5	**1.1**	<1	<0.5	**4.1**	<0.5	**110**	<0.5
W-1307	06-JAN-10	E601	**2**	<0.5	<0.5	<0.5	**0.62**	<1	<0.5	**0.68**	<0.5	**26**	<0.5
W-1404	06-JAN-10	E601	<0.5	**20**	<0.5	**2.6**	**0.84**	<1	<0.5	**58**	<0.5	**38**	<0.5
W-1550	06-JAN-10	E601	**9.9**	**4.6**	<0.5	<0.5	**1.6**	<1	**0.9**	**5.2**	<0.5	**220**	<0.5
W-2006	20-JAN-10	E601	**0.85**	**1.6**	**2.4**	**5**	**100**	<1	<0.5	**51**	<0.5	**510**	<0.5
W-2203[a]	08-JUL-09	E601	**17**	**2.2**	<0.5	<0.5	**3.2**	<1	**4.2**	**5.2**	<0.5	**140**	<0.5
TFD-HPD													
W-1254	13-JAN-10	E601	**2.3**	**0.62**	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**53**	<0.5
W-1551[a]	24-AUG-09	E601	**4**	**2.1**	<0.5	<0.5	<0.5	<1	**1.6**	<0.5	<0.5	**170**	<0.5
W-1552[a]	24-AUG-09	E601	<0.5	**1.1**	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**26**	<0.5
W-1650[a]	20-AUG-09	E601	**6.1**	**1.6**	<0.5	<0.5	<0.5	<1	**2.2**	<0.5	<0.5	**260**	<0.5
W-1651[a]	24-AUG-09	E601	**1.5**	**1**	<0.5	<0.5	<0.5	<1	**0.85**	<0.5	<0.5	**74**	<0.5
W-1652[a]	20-AUG-09	E601	**1.2**	**1.1**	<0.5	<0.5	<0.5	**2.4**	<0.5	**0.63**	<0.5	**150**	<0.5
W-1653[a]	20-AUG-09	E601	**0.58**	**0.67**	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**49**	<0.5
W-1654[a]	24-AUG-09	E601	<0.5	**0.68**	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**25**	<0.5

Table A-2. VOC analyses of samples from treatment facility extraction wells.

Extraction Well	Date Sampled	Analytic Method	CCl_4 <-	$CHCl_3$ -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
TFD-HPD (cont.)													
W-1655[a]	24-AUG-09	E601	**0.62**	**1.1**	<0.5	<0.5	<0.5	<1	<0.5	**0.91**	<0.5	**63**	<0.5
W-1656[a]	20-AUG-09	E601	**2.1**	**3**	<0.5	<0.5	<0.5	<1	**0.55**	<0.5	<0.5	**97**	<0.5
W-1657[a]	24-AUG-09	E601	**8.9**	**4**	<0.5	<0.5	<0.5	<1	**4**	<0.5	<0.5	**730**	<0.5
TFD-S													
W-1503	20-JAN-10	E601	**2.6**	**2.6**	<0.5	<0.5	**5.7**	<1	**1.3**	**5.3**	<0.5	**120**	<0.5
W-1504	20-JAN-10	E601	<0.5	<0.5	<0.5	<0.5	**13**	<1	**3**	**19**	<0.5	**84**	<0.5
W-1510	20-JAN-10	E601	<0.5	<0.5	<0.5	<0.5	**1.5**	<1	<0.5	**2.2**	<0.5	**21**	<0.5
TFD-SE													
W-314	24-MAR-10	E601	**0.81**	**5.4**	**0.77**	**1**	**7**	<1	**2.7**	**12**	<0.5	**100**	<0.5
W-1308	06-JAN-10	E601	<0.5	**1.6**	**2**	**6.4**	**22**	**1.4**	<0.5	**120**	<0.5	**200**	<0.5
W-1403[a]	09-OCT-09	E601	**2.6**	**19**	**1.4**	**6.7**	**44**	<1	**4.1**	**82**	<0.5	**400**	<0.5
W-1904[a]	26-DEC-07	E601	<0.5	<0.5	**0.54**	**0.67**	**5.8**	<1	<0.5	**39**	<0.5	**42**	<0.5
W-2005	06-JAN-10	E601	**0.94**	**1**	<0.5	**0.59**	**17**	<1	<0.5	**34**	<0.5	**57**	<0.5
SIP-ETC-201[a]	26-DEC-07	E601	<0.5	**0.55**	**0.59**	**1.1**	**8.5**	<1	<0.5	**59**	<0.5	**60**	<0.5
TFD-SS													
W-1523[a]	12-OCT-09	E601	**5.4**	**3.7**	**0.65**	**1.8**	**14**	<1	**1.7**	**27**	<0.5	**180**	<0.5
W-1601	18-MAR-10	E601	**4.1**	**4.8**	**1.6**	**7.1**	**29**	**1.2**	**1.6**	**96**	<0.5	**280**	<0.5
W-1602	18-MAR-10	E601	<0.5	**1.4**	<0.5	<0.5	<0.5	<1	<0.5	**0.58**	<0.5	**11**	**14**
W-1603	18-MAR-10	E601	**2.5**	**2**	**0.68**	**2.8**	**9.8**	<1	<0.5	**15**	<0.5	**130**	**26**
TFD-W													
W-1215	15-MAR-10	E601	<0.5	**4.3**	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**4.6**	**50**
W-1216	15-MAR-10	E601	<0.5	**2.8**	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**6**	**27**
W-1902	11-JAN-10	E601	**0.54**	**3.5**	<0.5	<0.5	<0.5	<1	**0.62**	<0.5	<0.5	**5.4**	**100**
TFE-E													
W-566	13-JAN-10	E601	**0.55**	**3.9**	<0.5	<0.5	**4.5**	<1	**12**	**3.4**	<0.5	**42**	<0.5
W-1109	13-JAN-10	E601	<0.5	**0.75**	**0.61**	<0.5	**53**	<1	**9.4**	**89**	<0.5	**240**	<0.5
W-1903[a]	06-JUL-09	E601	<0.5	<0.5	**1.3**	<0.5	**39**	<1	**7.6**	**88**	<0.5	**91**	<0.5
W-1909[a]	27-AUG-09	E601	<0.5	**1.4**	**3.4**	<0.5	**180**	**3.1**	**17**	**350**	<0.5	**540**	<0.5
W-2305	16-FEB-10	E601	<0.5	**0.91**	**1.7**	<0.5	**170**	**1.6**	**28**	**280**	<0.5	**660**	<0.5
TFE-HS													
W-2012	07-JAN-10	E601	<0.5	**0.85**	<0.5	<0.5	**6.5**	**1**	**20**	**36**	<0.5	**330**	<0.5
W-2105[a]	16-JUN-09	E601	<0.5	**0.74**	<0.5	<0.5	**0.79**	<1	**1.6**	**8.6**	<0.5	**210**	<0.5

Table A-2. VOC analyses of samples from treatment facility extraction wells.

Extraction Well	Date Sampled	Analytic Method	CCl_4 <-	$CHCl_3$ -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
TFE-NW													
W-1211	11-JAN-10	E601	**0.52**	**2.6**	<0.5	<0.5	<0.5	<1	**1.2**	<0.5	<0.5	**10**	<0.5
W-1409[a]	10-APR-08	E601	<0.5	<0.5	<0.5	<0.5	**1.2**	<1	**0.57**	**1.7**	<0.5	**30**	<0.5
TFE-SE													
W-359	11-JAN-10	E601	**3.3**	**0.77**	<0.5	<0.5	**19**	<1	**7.6**	**8**	<0.5	**140**	**0.83**
TFE-SW													
W-1518	13-JAN-10	E601	<0.5	**0.75**	<0.5	<0.5	**1.8**	**3.1**	**0.96**	**0.71**	<0.5	**15**	<0.5
W-1520[a]	01-JUL-09	E601	**6.5**	**4.5**	<0.5	**1.2**	**1.2**	**2.9**	<0.5	**3.8**	<0.5	**60**	<0.5
W-1522[a]	05-OCT-09	E601	**6.3**	**4.7**	**0.86**	**0.82**	**7.2**	**12**	**1.1**	**4.4**	<0.5	**150**	<0.5
TFE-W													
W-292	14-JAN-10	E601	<0.5	**0.8**	<0.5	<0.5	**1.1**	**3.2**	**1.5**	**1.2**	<0.5	**21**	<0.5
W-305	14-JAN-10	E601	<0.5	**1.3**	<0.5	<0.5	**3.7**	<1	**20**	**9.2**	<0.5	**40**	**0.74**
TFG-1													
W-1111	14-JAN-10	E601	**3.5**	**11**	<0.5	<0.5	**1.4**	<1	**0.64**	**1.4**	<0.5	**4.4**	<0.5
TFG-N													
W-1806	13-JAN-10	E601	<0.5	**6.3**	<0.5	<0.5	<0.5	<1	<0.5	**12**	<0.5	**2.7**	<0.5
W-1807	13-JAN-10	E601	<0.5	**4.5**	<0.5	<0.5	**1.2**	<1	**1.8**	**17**	<0.5	**5.8**	<0.5
TF406													
W-1309	12-JAN-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**2**	<0.5
W-1310	12-JAN-10	E601	<0.5	**0.78**	<0.5	<0.5	<0.5	<1	**0.5**	<0.5	<0.5	**6.5**	<0.5
GSW-445[a]	26-MAR-09	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**3**	<0.5
TF406-NW													
W-1801	12-JAN-10	E601	<0.5	**1.9**	<0.5	<0.5	<0.5	<1	**6.2**	**0.71**	<0.5	**28**	<0.5
TF518-N[c]													
W-1410[a]	23-JAN-08	E601	**2.8**	**1.5**	<0.5	<0.5	<0.5	<1	<0.5	**0.83**	<0.5	**18**	<0.5
TF518-PZ													
W-1615	15-JAN-10	E601	<0.5	**0.78**	<0.5	<0.5	**3.1**	<1	<0.5	**33**	<0.5	**93**	<0.5
W-518-1913	16-FEB-10	E601	<0.5	<0.5	<0.5	<0.5	**1.5**	<1	<0.5	**15**	<0.5	**69**	<0.5
W-518-1914	16-FEB-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	**95**	<0.5	**52**	<0.5
W-518-1915[b]	15-JAN-10	E601	<5	<5	<5	<5	**9.1**	<10	<5	**250**	<5	**2100**	<5
SVB-518-201[a]	07-FEB-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	**35**	<0.5	**8.5**	<0.5

Table A-2. VOC analyses of samples from treatment facility extraction wells.

Extraction Well	Date Sampled	Analytic Method	CCl_4 <-	$CHCl_3$ -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
TF518-PZ (cont.)													
SVB-518-204[a]	07-FEB-08	E601	<0.5	**0.63**	<0.5	<0.5	**1.4**	<1	<0.5	**43**	<0.5	**550**	<0.5
TF5475-1[c]													
W-1302-2[a]	18-JUL-07	E601	**1.8**	**19**	**0.73**	**3.4**	**20**	<1	**7.4**	**41**	<0.5	**260**	<0.5
TF5475-2													
W-1108	06-JAN-10	E601	**2.1**	**23**	**0.72**	**2.8**	**21**	<1	**7.8**	**39**	<0.5	**280**	<0.5
W-1415	21-JAN-10	E601	**1.7**	**19**	**0.62**	**2.1**	**19**	<1	**8.4**	**32**	<0.5	**260**	<0.5
TF5475-3[c]													
W-1604[a]	21-AUG-07	E601	**2.9**	**29**	**0.94**	**5.2**	**23**	<1	**17**	**45**	<0.5	**390**	<0.5
W-1605[a]	21-AUG-07	E601	**1.3**	**13**	<0.5	**5.7**	**7.2**	**1.2**	**4**	**21**	<0.5	**210**	<0.5
W-1608[a]	21-AUG-07	E601	<0.5	**9.5**	**0.71**	**3.2**	**2.1**	**3.2**	**1.8**	**7.1**	<0.5	**69**	<0.5
W-1609[a]	21-AUG-07	E601	<0.5	**13**	**0.55**	**9.4**	**2.7**	<1	**0.94**	**7.9**	<0.5	**62**	<0.5

Notes on following page.

Table A-2. VOC analyses of samples from treatment facility extraction wells.

[a] Most recent VOC sample results available.

[b] Elevated detection limit due to dilution.

[c] Treatment Facility did not operate during reporting period. Please refer to Table A-1 for details.

Notes:

CCl_4 = Carbon tetrachloride

$CHCl_3$ = Chloroform

1,1-DCA = 1,1-Dichloroethane

1,2-DCA = 1,2-Dichloroethane

1,1-DCE = 1,1-Dichloroethylene

1,2-DCE = 1,2-Dichloroethylene

Freon 113 = Trichlorotrifluoroethane

PCE = Tetrachloroethylene

1,1,1-TCA = 1,1,1-Trichloroethane

TCE = Trichloroethene

Freon 11 = Trichlorofluoromethane

VOC = volatile organic compound

Numbers in **BOLD** print indicate positive values above the detection limit.

Table A-3. VOC analyses of vapor samples from treatment facility extraction wells.

Extraction Well	Date Sampled	Analytic Method	CCl_4 <-	$CHCl_3$ -	1,1-DCA -	1,2-DCA -	1,1-DCE PPM(V/V)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
VTFD-ETCS													
W-1904[a]	09-JUN-09	TO15DIT	<0.005	**0.041**	**0.0056**	<0.005	**0.25**	<0.005	<0.005	**2.1**	<0.005	**0.67**	<0.005
W-ETC-2003	16-FEB-10	TO15DIT	<0.005	<0.005	<0.005	<0.005	**0.02**	<0.005	<0.005	**0.32**	<0.005	**0.082**	<0.005
W-ETC-2004A	16-FEB-10	TO15DIT	<0.005	**0.011**	<0.005	<0.005	<0.005	<0.005	<0.005	**0.44**	<0.005	**0.098**	<0.005
W-ETC-2004B	16-FEB-10	TO15DIT	<0.005	**0.041**	**0.0081**	<0.005	**0.1**	<0.005	<0.005	**2**	**0.0074**	**2.3**	<0.005
SIP-ETC-201[a]	09-JUN-09	TO15DIT	<0.005	**0.009**	**0.037**	**0.0059**	**0.65**	<0.005	<0.005	**2.9**	<0.005	**1.4**	<0.005
VTFD-HPD													
W-1552[a]	13-FEB-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.011**	<0.005	**0.2**	<0.005
W-1650[a]	03-JUL-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
W-1651[a]	03-JUL-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
W-1652[a]	03-JUL-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
W-1653[a]	03-JUL-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
W-1654[a]	03-JUL-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
W-1655[a]	03-JUL-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
W-1656[a]	03-JUL-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
W-1657[a]	03-JUL-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
W-HPA-002A	19-JAN-10	TO15DIT	**0.019**	**0.014**	<0.005	<0.005	**0.0069**	<0.005	<0.005	**0.047**	<0.005	**0.58**	<0.005
W-HPA-002B[a]	23-JUL-09	TO15DIT	<0.011	**0.011**	<0.011	<0.011	<0.011	<0.011	<0.011	**0.056**	<0.011	**0.46**	<0.011
VTFD-HS													
W-653[a]	03-NOV-09	TO15DIT	**0.026**	<0.005	<0.005	<0.005	<0.005	<0.005	**0.016**	<0.005	<0.005	**0.58**	<0.005
W-2011[a]	15-FEB-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.081**	<0.005
W-2101[a]	03-NOV-09	TO15DIT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.052**	<0.005
W-2102[a]	15-FEB-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.11**	<0.005
VTFE-ELM													
W-1903[a]	08-JUL-09	TO15DIT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
W-1909[a]	10-JUL-09	TO15DIT	<0.005	<0.005	**0.0058**	<0.005	**0.95**	<0.005	**0.44**	**0.75**	<0.005	**1.5**	<0.005
W-2305[a]	10-JUL-09	TO15DIT	<0.01	<0.01	<0.01	<0.01	**6**	**0.012**	**2.3**	**3.3**	<0.01	**7.5**	**0.014**
W-543-001[a]	01-JUL-09	TO15DIT	<0.005	<0.005	<0.005	<0.005	**0.11**	<0.005	**0.017**	**0.34**	<0.005	**0.32**	<0.005
W-543-003	07-JAN-10	TO15DIT	<0.005	**0.013**	<0.005	<0.005	**0.14**	<0.005	**0.037**	**0.54**	<0.005	**0.88**	<0.005
W-543-1908[a]	01-JUL-09	TO15DIT	<0.005	<0.005	<0.005	<0.005	**0.072**	<0.005	**0.019**	**0.13**	<0.005	**0.33**	<0.005
VTFE-HS													
W-ETS-2008A	16-FEB-10	TO15DIT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.029**	<0.005	**0.079**	<0.005
W-ETS-2008B	16-FEB-10	TO15DIT	<0.01	<0.01	<0.01	<0.01	**0.039**	<0.01	**0.091**	**1.1**	<0.01	**2.9**	<0.01
W-ETS-2009[a]	13-AUG-09	TO15DIT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.022**	<0.005	**0.18**	<0.005
W-ETS-2010A	16-FEB-10	TO15DIT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.056**	<0.005	**0.15**	<0.005
W-ETS-2010B[a]	05-AUG-09	TO15DIT	<0.005	<0.005	**0.016**	<0.005	**0.011**	**0.03**	**0.046**	**0.095**	**0.051**	**1**	<0.005

Table A-3. VOC analyses of vapor samples from treatment facility extraction wells.

Extraction Well	Date Sampled	Analytic Method	CCl_4 <-	$CHCl_3$ -	1,1-DCA -	1,2-DCA -	1,1-DCE PPM(V/V)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
VTFE-HS (cont.)													
W-2105[a]	30-JAN-08	TO15DI	<0.005	<0.005	<0.005	<0.005	**0.014**	<0.005	**0.01**	**0.022**	<0.005	**0.13**	<0.005
VTF406-HS													
W-217	16-FEB-10	TO15DIT	**0.061**	**0.0072**	<0.005	<0.005	**0.31**	<0.005	**0.07**	**0.52**	<0.005	**0.67**	<0.005
W-514-2007A	16-FEB-10	TO15DIT	**0.013**	<0.005	<0.005	<0.005	**0.0086**	<0.005	**0.0089**	**0.041**	<0.005	**0.33**	**0.16**
W-514-2007B	16-FEB-10	TO15DIT	**0.12**	**0.016**	<0.012	<0.012	**0.95**	<0.012	**0.11**	**0.82**	<0.012	**3.9**	**0.038**
VTF511													
W-274[a]	04-OCT-06	TO15DI	**0.14**	**0.02**	<0.0062	<0.0062	**0.07**	<0.0062	**0.014**	**0.33**	<0.0062	**6.1**	**0.38**
W-1517[a]	20-DEC-07	TO15DI	**0.0066**	<0.005	<0.005	<0.005	**0.0068**	<0.005	<0.005	**0.022**	<0.005	**0.65**	**0.016**
W-2204[a]	21-MAY-09	TO15DIT	**0.098**	**0.034**	<0.005	**0.038**	**0.019**	<0.005	**0.0082**	**0.42**	<0.005	**3.9**	<0.005
W-2206[a]	21-MAY-09	TO15DIT	**0.013**	**0.022**	<0.005	**0.024**	<0.005	<0.005	<0.005	**0.24**	<0.005	**2**	<0.005
W-2207A[a]	14-MAY-09	TO15DIT	<0.005	**0.0055**	<0.005	<0.005	**0.0053**	<0.005	<0.005	**0.01**	<0.005	**1.5**	<0.005
W-2207B	28-JAN-10	TO15DIT	<0.031	**0.036**	<0.031	<0.031	<0.031	<0.031	<0.031	<0.031	<0.031	**13**	<0.031
W-2208A[a]	14-MAY-09	TO15DIT	**0.025**	**0.016**	<0.01	<0.01	**0.05**	<0.01	<0.01	**0.019**	<0.01	**9.8**	**0.026**
W-2208B	28-JAN-10	TO15DIT	**0.094**	<0.062	<0.062	<0.062	**0.42**	<0.062	<0.062	**0.092**	<0.062	**29**	**0.099**
W-2205[a]	21-MAY-09	TO15DIT	**0.18**	**0.033**	<0.005	**0.0052**	**0.045**	<0.005	**0.0078**	**0.23**	<0.005	**3.6**	**0.012**
VTF518-PZ													
W-1615	07-JAN-10	TO15DIT	**0.05**	<0.025	<0.025	<0.025	**0.7**	<0.025	**0.4**	**6.5**	<0.025	**11**	<0.025
W-518-1913[a]	17-AUG-09	TO15DIT	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	**0.19**	<0.17
W-518-1914[a]	17-AUG-09	TO15DIT	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	**1.1**	<0.12	**0.61**	<0.12
W-518-1915	07-JAN-10	TO15DIT	<0.5	<0.5	<0.5	<0.5	**0.69**	<0.5	<0.5	**46**	<0.5	**170**	<0.5
SVB-518-201[a]	14-AUG-09	TO15DIT	<0.076	<0.076	<0.076	<0.076	<0.076	<0.076	<0.076	<0.076	<0.076	**0.26**	<0.076
SVB-518-204[a]	15-JAN-08	TO15DI	<0.02	<0.02	<0.02	<0.02	**0.051**	<0.02	<0.02	**2.4**	<0.02	**15**	<0.02
VTF5475[b]													
W-ETS-507[a]	23-SEP-09	TO15DI	<0.005	**2.7**	<0.005	**0.023**	<0.005	<0.005	<0.005	**0.54**	<0.005	**2.1**	<0.005
W-1605[a]	06-SEP-07	TO15DI	**0.0069**	**0.17**	<0.005	**0.15**	**0.11**	<0.005	**0.036**	**0.1**	<0.005	**0.85**	<0.005
W-1608[a]	06-SEP-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.0061**	<0.005
W-2211[a]	23-SEP-09	TO15DI	<0.005	**0.036**	<0.005	**0.0066**	**0.014**	<0.005	<0.005	**0.024**	<0.005	**0.2**	<0.005
W-2212[a]	23-SEP-09	TO15DI	<0.005	**0.021**	<0.005	<0.005	<0.005	**0.016**	<0.005	<0.005	<0.005	<0.005	<0.005
W-2302[a]	23-SEP-09	TO15DI	<0.005	**0.0072**	<0.005	<0.005	<0.005	**0.0052**	<0.005	<0.005	<0.005	<0.005	<0.005
W-2303[a]	23-SEP-09	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SVI-ETS-504[a]	12-OCT-07	TO15DI	<0.005	**0.32**	**0.0052**	**0.14**	**0.073**	<0.005	<0.005	**0.064**	<0.005	**0.34**	<0.005

Notes on following page.

Table A-3. VOC analyses of vapor samples from treatment facility extraction wells.

[a] Most recent VOC vapor sample results available.

[b] VTF5475 did not operate during reporting period due to mixed waste disposition issues.

Notes:

CCl_4 = Carbon tetrachloride

$CHCl_3$ = Chloroform

1,1-DCA = 1,1-Dichloroethane

1,2-DCA = 1,2-Dichloroethane

1,1-DCE = 1,1-Dichloroethylene

1,2-DCE = 1,2-Dichloroethylene

Freon 113 = Trichlorotrifluoroethane

PCE = Tetrachloroethylene

1,1,1-TCA = 1,1,1-Trichloroethane

TCE = Trichloroethene

Freon 11 = Trichlorofluoromethane

VOC = volatile organic compound

Numbers in **BOLD** print indicate positive values above the detection limit.

Table A-4. Chromium analyses of influent, effluent and receiving water samples by treatment facility.

Treatment Facility	Sample Station	Date Sampled	Chromium (total)[a] mg/L (ppm)	Hexavalent Chromium mg/L (ppm)
TFA	TFA-I001	04-JAN-10	0.011	0.011
	TFA-E001	04-JAN-10	0.011	0.0096
TFA-E	W-254	06-JAN-10	0.0084	NA
	STU06-E	06-JAN-10	0.0079	0.0074
TFA-W	TFA-W-E	21-JAN-10	0.016	NA
TFB	TFB-I002	04-JAN-10	0.019	NA
	TFB-E002	04-JAN-10	0.022	0.015
	TFB-E002	02-FEB-10	0.015	NA
	TFB-E002	01-MAR-10	0.013	NA
	TFB-R002	04-JAN-10	0.014	NA
TFC	TFC-I003	10-FEB-10	0.017	NA
	TFC-E003	29-JAN-10	<0.001	NA
	TFC-E003	10-FEB-10	0.0098	0.0093
	TFC-E003	01-MAR-10	0.012	NA
	TFC-R003	10-FEB-10	0.0036	NA
TFC-E	MTU1-I	02-FEB-10	0.04	NA
	MTU1-E	02-FEB-10	<0.005	<0.005
	MTU1-E	03-MAR-10	<0.001	NA
TFC-SE	PTU1-I	05-JAN-10	0.029	NA
	PTU1-E	05-JAN-10	0.017	0.016
	PTU1-E	02-FEB-10	0.015	NA
	PTU1-E	02-MAR-10	0.018	NA
TFD	TFD-I004	05-JAN-10	0.01	NA
	TFD-E004	05-JAN-10	0.0096	0.0095
TFD-E	PTU8-I	06-JAN-10	0.0084	NA
	PTU8-E	06-JAN-10	0.0086	0.0085
TFD-HPD	PTU10-I	13-JAN-10	0.01	NA
	PTU10-E	13-JAN-10	0.0089	0.0097
TFD-S	PTU2-I	20-JAN-10	0.01	NA
	PTU2-E	20-JAN-10	0.011	0.011
TFD-SE	PTU11-I	06-JAN-10	0.011	NA
	PTU11-E	06-JAN-10	0.011	0.012
TFD-SS	PTU12-I	19-JAN-10	0.0077	NA
	PTU12-E	19-JAN-10	0.0078	0.0078
TFD-W	PTU6-I	11-JAN-10	0.01	NA
	PTU6-E	11-JAN-10	0.0094	0.0097
TFE-E	PTU3-I	13-JAN-10	0.009	NA
	PTU3-E	13-JAN-10	0.0073	0.0086
TFE-HS	GTU07-I	07-JAN-10	0.0069	NA
	GTU07-E	07-JAN-10	<0.005	<0.005
TFE-NW	PTU9-I	11-JAN-10	0.0099	NA

Table A-4. Chromium analyses of influent, effluent and receiving water samples by treatment facility.

Treatment Facility	Sample Station	Date Sampled	Chromium (total)[a] mg/L (ppm)	Hexavalent Chromium mg/L (ppm)
TFE-NW (cont.)				
	PTU9-E	11-JAN-10	0.0091	0.0097
TFE-SE	MTU04-I	11-JAN-10	0.0075	NA
	MTU04-E	11-JAN-10	0.0062	0.0073
TFE-SW	MTU03-I	13-JAN-10	0.0047	NA
	MTU03-E	13-JAN-10	<0.005	<0.005
TFE-W	MTU05-I	14-JAN-10	0.01	NA
	MTU05-E	14-JAN-10	0.0087	0.0096
TFG-1	GTU01-I	14-JAN-10	0.0076	NA
	GTU01-E	14-JAN-10	<0.005	<0.005
	TFG-ASW	14-JAN-10	0.012	NA
TFG-N	MTU02-I	13-JAN-10	0.008	NA
	MTU02-E	13-JAN-10	0.0066	0.0077
TF406	PTU5-I	12-JAN-10	0.012	NA
	PTU5-E	12-JAN-10	0.011	0.012
TF406-NW	W-1801	12-JAN-10	0.0016	NA
	GTU03-E	12-JAN-10	<0.005	<0.005
TF5475-2	GTU09-I	06-JAN-10	0.013	NA
	GTU09-E	06-JAN-10	0.013	0.014

[a]A discharge limit of 0.050 ppm is set for total chromium during the dry season (April 1-November 30), and no limit is set for total chromium for the wet season (December 1-March 31); however, a limit of 0.022 ppm hexavalent chromium applies during the wet season. Discharge limits are defined in the Explanation of Significant Differences for metals discharge limits (April 1997).

Shaded values exceeded the discharge limit. See text for explanation.

Table A-5. Bioassay, turbidity, and chloride analyses of influent and effluent samples by treatment facility.

Treatment Facility	Sample Station	Date Sampled	Aquatic Bioassay[a] Percent Survival	Turbidity Nephelometric Turbidity Units (NTU)	Chloride (mg/L)
TFA	TFA-I001	04-JAN-10	NA	NA	78
TFA	TFA-E001	04-JAN-10	100 (100)	<0.1	78
TFA-E	STU06-E	06-JAN-10	100 (100)	<0.1	47
TFB	TFB-E002	04-JAN-10	100 (100)	<0.1	68
TFC	TFC-E003	10-FEB-10	100 (100)	0.25	230
TFC-E	MTU1-E	02-FEB-10	100 (100)	<0.1	180
TFC-SE	PTU1-E	05-JAN-10	100 (100)	0.1	88
TFD	TFD-E004	05-JAN-10	100 (100)	0.1	290
	TFD-E004	19-JAN-10	NA	NA	240
TFD-E	PTU8-E	06-JAN-10	100 (100)	0.14	280
TFD-HPD	PTU10-E	13-JAN-10	100 (100)	<0.1	390
TFD-S	PTU2-E	20-JAN-10	100 (100)	0.29	67
TFD-SE	PTU11-E	06-JAN-10	100 (100)	0.15	96
TFD-SS	PTU12-E	19-JAN-10	100 (100)	<0.1	74
TFD-W	PTU6-E	11-JAN-10	100 (100)	<0.1	240
TFE-E	PTU3-E	13-JAN-10	100 (100)	0.16	110
TFE-HS	GTU07-E	07-JAN-10	100 (100)	0.11	39
TFE-NW	PTU9-E	11-JAN-10	100 (100)	<0.1	100
TFE-SE	MTU04-E	11-JAN-10	100 (100)	0.42	94
TFE-SW	MTU03-E	13-JAN-10	100 (100)	0.13	73
TFE-W	MTU05-E	14-JAN-10	100 (100)	0.13	58
TFG-1	GTU01-E	14-JAN-10	100 (100)	0.1	33
TFG-N	MTU02-E	13-JAN-10	100 (100)	<0.1	18
TF406	PTU5-E	12-JAN-10	100 (100)	<0.1	49
TF406-NW	GTU03-E	12-JAN-10	100 (100)	0.13	49
TF5475-2	GTU09-E	06-JAN-10	100 (100)	<0.1	110

[a]Test species was Fathead minnow and the test duration was 96 hours.
Percent survival in the control group samples shown in parentheses.
Note: NA = not applicable

Table A-6. Metals analyses of influent and effluent samples by treatment facility as compared to the instantaneous Maximum.

		Antimony	Arsenic	Beryllium	Boron	Cadmium	Copper	Cyanide	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Thallium	Zinc
		<-	-	-	-	-	-	mg/L (ppm)	-	-	-	-	-	-	-	-	->
Wet Season[a] (December 1 - March 31)		**NA**	**0.01**	**NA**	**NA**	**0.002**	**0.0236**	**NA**	**NA**	**0.006**	**NA**	**0.002**	**0.3**	**0.01**	**0.1**	**NA**	**0.220**
Sample Station	**Date Sampled**																
TFA																	
TFA-I001	04-JAN-10	<0.005	<0.005	<0.0002	**0.67**	<0.001	<0.005	NA	<0.1	<0.005	<0.03	<0.0002	<0.005	<0.005	<0.005	<0.001	<0.01
TFA-E001	04-JAN-10	<0.005	<0.005	<0.0002	**0.65**	<0.001	<0.005	NA	<0.1	<0.005	<0.03	<0.0002	<0.005	<0.005	<0.005	<0.001	<0.01
TFA-E																	
STU06-E	06-JAN-10	<0.005	<0.005	<0.001	NA	<0.001	<0.005	NA	NA	<0.005	NA	<0.0002	<0.005	<0.005	<0.005	<0.001	<0.01
TFA-W																	
TFA-W-E	21-JAN-10	NA	<0.002	NA	NA	<0.005	<0.01	NA	NA	<0.002	NA	<0.0002	<0.005	NA	<0.01	NA	<0.05
TFB																	
TFB-E002	04-JAN-10	<0.005	<0.005	<0.001	NA	<0.001	<0.005	NA	NA	<0.005	NA	<0.0002	<0.005	<0.005	<0.005	<0.001	<0.01
TFC																	
TFC-E003	10-FEB-10	<0.005	<0.005	<0.001	NA	<0.001	<0.005	NA	NA	<0.005	NA	<0.0002	<0.005	<0.005	<0.005	<0.001	<0.01
TFC-E																	
MTU1-E	02-FEB-10	<0.005	<0.005	<0.001	NA	<0.001	<0.005	NA	NA	<0.005	NA	<0.0002	<0.005	<0.005	<0.005	<0.001	<0.01
TFC-SE																	
PTU1-E	05-JAN-10	<0.005	<0.005	<0.001	NA	<0.001	<0.005	NA	NA	<0.005	NA	<0.0002	<0.005	<0.005	<0.005	<0.001	<0.01
TFD																	
TFD-E004	05-JAN-10	<0.005	<0.005	<0.001	NA	<0.001	<0.005	NA	NA	<0.005	NA	<0.0002	<0.005	<0.005	<0.005	<0.001	<0.01
TFD-E004	19-JAN-10	NA	NA	NA	NA	NA	<0.05	NA	<0.1	NA	<0.03	NA	<0.1	NA	NA	NA	<0.05
TFD-E																	
PTU8-E	06-JAN-10	<0.005	<0.005	<0.001	NA	<0.001	<0.005	NA	NA	<0.005	NA	<0.0002	<0.005	<0.005	<0.005	<0.001	<0.01
TFD-HPD																	
PTU10-E	13-JAN-10	<0.005	<0.005	<0.001	NA	<0.001	<0.005	NA	NA	<0.005	NA	<0.0002	<0.005	<0.005	<0.005	<0.001	<0.01
TFD-S																	
PTU2-E	20-JAN-10	<0.005	<0.005	<0.001	**0.57**	<0.001	<0.005	NA	<0.05	<0.005	<0.01	<0.0002	<0.005	<0.005	<0.005	<0.001	**0.021**
TFD-SE																	
PTU11-E	06-JAN-10	<0.005	<0.005	<0.001	NA	<0.001	<0.005	NA	NA	<0.005	NA	<0.0002	<0.005	<0.005	<0.005	<0.001	<0.01
TFD-SS																	
PTU12-E	19-JAN-10	<0.005	<0.005	<0.001	NA	<0.001	<0.005	NA	NA	<0.005	NA	<0.0002	<0.005	<0.005	<0.005	<0.001	<0.01
TFD-W																	
PTU6-E	11-JAN-10	<0.005	<0.005	<0.001	NA	<0.001	<0.005	NA	NA	<0.005	NA	<0.0002	<0.005	<0.005	<0.005	<0.001	<0.01
TFE-E																	
PTU3-E	13-JAN-10	<0.005	<0.005	<0.001	NA	<0.001	<0.005	NA	NA	<0.005	NA	<0.0002	<0.005	<0.005	<0.005	<0.001	<0.01

Table A-6. Metals analyses of influent and effluent samples by treatment facility as compared to the instantaneous Maximum.

		Antimony	Arsenic	Beryllium	Boron	Cadmium	Copper	Cyanide	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Thallium	Zinc
		<-	-	-	-	-	-	mg/L (ppm)	-	-	-	-	-	-	-	-	->
Wet Season[a] (December 1 - March 31)		**NA**	**0.01**	**NA**	**NA**	**0.002**	**0.0236**	**NA**	**NA**	**0.006**	**NA**	**0.002**	**0.3**	**0.01**	**0.1**	**NA**	**0.220**
Sample Station	**Date Sampled**																
TFE-HS																	
GTU07-E	07-JAN-10	<0.005	<0.005	<0.001	NA	<0.001	<0.005	NA	NA	<0.005	NA	<0.0002	<0.005	<0.005	<0.005	<0.001	<0.01
TFE-NW																	
PTU9-E	11-JAN-10	<0.005	<0.005	<0.001	NA	<0.001	<0.005	NA	NA	<0.005	NA	<0.0002	<0.005	<0.005	<0.005	<0.001	<0.01
TFE-SE																	
MTU04-E	11-JAN-10	<0.005	<0.005	<0.001	NA	<0.001	<0.005	NA	NA	<0.005	NA	<0.0002	<0.005	<0.005	<0.005	<0.001	**0.018**
TFE-SW																	
MTU03-E	13-JAN-10	<0.005	<0.005	<0.001	NA	<0.001	<0.005	NA	NA	<0.005	NA	<0.0002	<0.005	<0.005	<0.005	<0.001	<0.01
TFE-W																	
MTU05-E	14-JAN-10	<0.005	<0.005	<0.001	NA	<0.001	<0.005	NA	NA	<0.005	NA	<0.0002	<0.005	<0.005	<0.005	<0.001	<0.01
TFG-1																	
GTU01-E	14-JAN-10	<0.005	<0.005	<0.001	NA	<0.001	<0.005	NA	NA	<0.005	NA	<0.0002	<0.005	<0.005	<0.005	<0.001	<0.01
TFG-N																	
MTU02-E	13-JAN-10	<0.005	<0.005	<0.001	NA	<0.001	<0.005	NA	NA	<0.005	NA	<0.0002	<0.005	<0.005	<0.005	<0.001	<0.01
TF406																	
PTU5-E	12-JAN-10	<0.005	<0.005	<0.001	NA	<0.001	<0.005	NA	NA	<0.005	NA	<0.0002	<0.005	<0.005	<0.005	<0.001	<0.01
TF406-NW																	
GTU03-E	12-JAN-10	<0.005	<0.005	<0.001	NA	<0.001	<0.005	NA	NA	<0.005	NA	<0.0002	<0.005	<0.005	<0.005	<0.001	<0.01
TF5475-2																	
GTU09-E	06-JAN-10	<0.005	<0.005	<0.001	NA	<0.001	<0.005	NA	NA	<0.005	NA	<0.0002	<0.005	<0.005	<0.005	<0.001	<0.01

[a]The Explanation of Significant Differences for metals discharge identifies the Instantaneous Maximum concentrations for the wet season (December 1 - March 30).
NA = not applicable
Numbers in **BOLD** print indicate positive values above the detection limit.
Shaded values exceeded the discharge limit. See text for explanation.

Table A-7. Radiological analyses of effluent and receiving waters by treatment facility.

Treatment Facility	Sample Station	Date Sampled	Gross Alpha <-	Gross Beta pCi/L	Tritium ->
TFA	TFA-E001	04-JAN-10	**2.81**	<3	<100
TFA-E	STU06-E	06-JAN-10	**3.08**	<3	<100
TFB	TFB-E002	04-JAN-10	**2.42**	<3	**182**
TFB	TFB-R002	04-JAN-10	**4.1**	<3	**113**
TFC	TFC-E003	10-FEB-10	**2.32**	<3	<100
TFC	TFC-R003	10-FEB-10	**2.24**	<3	<100
TFC-E	MTU1-E	02-FEB-10	<2	<3	**340**
TFC-SE	PTU1-E	05-JAN-10	**3.28**	<3	**305**
TFD	TFD-E004	05-JAN-10	**4.35**	<3	**105**
TFD-E	PTU8-E	06-JAN-10	**7.72**	**3.08**	**160**
TFD-HPD	PTU10-E	13-JAN-10	**4.92**	**8.47**	<100
TFD-S	PTU2-E	20-JAN-10	**2.84**	<3	**236**
TFD-SE	PTU11-E	06-JAN-10	**5.7**	<3	**310**
TFD-SS	PTU12-E	19-JAN-10	**2.34**	<3	**264**
TFD-W	PTU6-E	11-JAN-10	**3.44**	<3	<100
TFE-E	PTU3-E	13-JAN-10	<2	<3	<100
TFE-HS	GTU07-E	07-JAN-10	**3.83**	<3	**136**
TFE-NW	PTU9-E	11-JAN-10	**2.76**	<3	**114**
TFE-SE	MTU04-E	11-JAN-10	**2.54**	<3	<100
TFE-SW	MTU03-I	21-JAN-10	NA	NA	**397**
TFE-SW	MTU03-E	13-JAN-10	**2.05**	<3	**343**
TFE-W	MTU05-E	14-JAN-10	**2.33**	<3	**174**
TFG-1	GTU01-E	14-JAN-10	**3.36**	<3	**190**
TFG-1	TFG-ASW	14-JAN-10	**4.27**	<3	<100
TFG-N	MTU02-E	13-JAN-10	**2.63**	<3	**170**
TF406	PTU5-E	12-JAN-10	**2.25**	<3	<100
TF406-NW	W-1801	12-JAN-10	NA	NA	**153**
TF406-NW	GTU03-E	12-JAN-10	**3.85**	**3.25**	**175**
TF5475-2	GTU09-E	06-JAN-10	**2.34**	<3	**619**

Numbers in **BOLD** print indicate positive values above the detection limit.

Explanation of Abbreviations

TFA-I001 is a sampling port located immediately prior to the TFA Treatment System.
TFA-E001 is a sampling port located immediately after the TFA Treatment System, at the beginning of the discharge pipeline.
TFA receiving water is routinely sampled at the TFG-ASW location.
TFA-W-I is an influent sampling port prior to the sediment bag filter immediately following W-404.
TFA-W-E is an effluent sampling port immediately following the sediment bag filter; the water is then discharged to the Livermore Water Reclamation Plant (LWRP).
TFB-I002 is a sampling port located immediately prior to the TFB Treatment System.
TFB-E002 is a sampling port located immediately after the TFB Treatment System, at the beginning of the discharge pipeline.
TFB-R002 is a sampling station in the drainage ditch north of TFB, located approximately 75 ft downstream from the discharge point.
TFC-I003 is a sampling port located immediately prior to the TFC Treatment System.
TFC-E003 is a sampling port located immediately after the TFC Treatment System, at the beginning of the discharge pipeline.
TFC-R003 is a sampling station in Arroyo Las Positas, located approximately 75 ft downstream from the TFC discharge point.
TFD-I004 is a sampling port located immediately prior to the TFD Treatment System.
TFD-E004 is a sampling port located immediately after the TFD Treatment System, prior to discharge to the Drainage Retention Basin or to the underground discharge pipeline leading to Arroyo Las Positas.
TFD-R004 is now combined with and collected at the TFC-R003 location. Results are reported under TFC-R003, as approved by the RWQCB.
CRD1-I is a sampling port located immediately prior to the catalytic column in the Catalytic Reductive Dehalogenation treatment unit 1 (CRD1).
CRD1-E is the effluent from the catalytic column in the Catalytic Reductive Dehalogenation treatment unit 1 (CRD1) and then reinjected at W-1302.
CRD2-I is a sampling port located immediately prior to the catalytic columns in the Catalytic Reductive Dehalogenation treatment unit 2 (CRD2).
CRD2-E is the effluent from the last catalytic column in the Catalytic Reductive Dehalogenation treatment unit 2 (CRD2) and then reinjected at W-1610.
GTU01-I is a sampling port located immediately prior to GTU01, which is currently operating in the TFG-1 area.
GTU01-E is a sampling port located immediately after GTU01, which is currently operating in the TFG-1 area.
GTU01 receiving water is routinely sampled at the TFG-ASW location.
GTU03-I is a sampling port located immediately prior to GTU03, which is currently operating in the TF406 Northwest area.
GTU03-E is a sampling port located immediately after GTU03, which is currently operating in the TF406 Northwest area.
GTU03 receiving water is routinely sampled at the TFC-R003 location.
GTU07-I is a sampling port located immediately prior to GTU07, which is currently operating in the TFE Hotspot area.
GTU07-E is a sampling port located immediately after GTU07, which is currently operating in the TFE Hotspot area.
GTU07 receiving water is routinely sampled at the TFC-R003 location.
GTU09-I is a sampling port located immediately prior to GTU09, which is currently operating in the TF5475 area.
GTU09-E is a sampling port located immediately after GTU09, which is currently operating in the TF5475 area.
GTU09 receiving water is routinely sampled at the TFC-R003 location.
MTU02-I is a sampling port located immediately prior to MTU02, which is currently operating in the TFG North area.
MTU02-E is a sampling port located immediately after MTU02, which is currently operating in the TFG North area.
MTU02 receiving water is routinely sampled at the TFC-R003 location.
MTU03-I is a sampling port located immediately prior to MTU03, which is currently operating in the TFE Southwest area.
MTU03-E is a sampling port located immediately after MTU03, which is currently operating in the TFE Southwest area.
MTU03 receiving water is routinely sampled at the TFC-R003 location.
MTU04-I is a sampling port located immediately prior to MTU04, which is currently operating in the TFE Southeast area.
MTU04-E is a sampling port located immediately after MTU04, which is currently operating in the TFE Southeast area.
MTU04 receiving water is routinely sampled at the TFC-R003 location.
MTU05-I is a sampling port located immediately prior to MTU05, which is currently operating in the TFE West area.
MTU05-E is a sampling port located immediately after MTU05, which is currently operating in the TFE West area.
MTU05 receiving water is routinely sampled at the TFC-R003 location.

Explanation of Abbreviations

MTU1-I is a sampling port located immediately prior to MTU1, which is currently operating in the TFC East area.
MTU1-E is a sampling port located immediately after MTU1, which is currently operating in the TFC East area.
MTU1 receiving water is routinely sampled at the TFC-R003 location.
PTU1-I is a sampling port located immediately prior to PTU-1, which is currently operating in the TFC Southeast area.
PTU1-E is a sampling port located immediately after PTU-1, which is currently operating in the TFC Southeast area.
PTU1 receiving water is routinely sampled at the TFC-R003 location.
PTU2-I is a sampling port located immediately prior to PTU-2, which is currently operating in the TFD South area.
PTU2-E is a sampling port located immediately after PTU-2, which is currently operating in the TFD South area.
PTU2 receiving water is routinely sampled at TFC-R003 during the wet season.
PTU3-I is a sampling port located immediately prior to PTU-3, which is currently operating in the TFE East area.
PTU3-E is a sampling port located immediately after PTU-3, which is currently operating in the TFE East area.
PTU3 receiving water is routinely sampled at the TFC-R003 location.
PTU5-I is a sampling port located immediately prior to PTU-5, which is currently operating in the TF406 extraction location.
PTU5-E is a sampling port located immediately after PTU-5, which is currently operating in the TF406 extraction location.
PTU5 receiving water is routinely sampled at the TFC-R003 location.
PTU6-I is a sampling port located immediately prior to PTU-6, which is currently operating in the TFD West area.
PTU6-E is a sampling port located immediately after PTU-6, which is currently operating in the TFD West area.
PTU6 receiving water is routinely sampled at the TFC-R003 location.
PTU8-I is a sampling port located immediately prior to PTU-8, which is currently operating in the TFD East area.
PTU8-E is a sampling port located immediately after PTU-8, which is currently operating in the TFD East area.
PTU8 receiving water is routinely sampled at the TFC-R003 location.
PTU9-I is a sampling port located immediately prior to PTU-9, which is currently operating in the TFE Northwest area.
PTU9-E is a sampling port located immediately after PTU-9, which is currently operating in the TFE Northwest area.
PTU9 receiving water is routinely sampled at the TFC-R003 location.
PTU10-I is a sampling port located immediately prior to PTU-10, which is currently operating in the TFD Helipad area.
PTU10-E is a sampling port located immediately after PTU-10, which is currently operating in the TFD Helipad area.
PTU10 receiving water is routinely sampled at the TFC-R003 location.
PTU11-I is a sampling port located immediately prior to PTU-11, which is currently operating in the TFD Southeast area.
PTU11-E is a sampling port located immediately after PTU-11, which is currently operating in the TFD Southeast area.
PTU11 receiving water is routinely sampled at the TFC-R003 location.
PTU12-I is a sampling port located immediately prior to PTU-12, which is currently operating in the TFD Southshore area.
PTU12-E is a sampling port located immediately after PTU-12, which is currently operating in the TFD Southshore area.
PTU12 receiving water is routinely sampled at the TFC-R003 location.
STU06-I is a sampling port located immediately prior to STU06, which is operating in the TFA East area.
STU06-E is a sampling port located immediately after STU06, which is operating in the TFA East area.
STU06 receiving water is routinely sampled at the TFG-ASW location.
STU09-I is a sampling port located immediately prior to STU09, which is currently operating in the TF518-North area.
STU09-E is a sampling port located immediately after STU09, which is currently operating in the TF518-North area.
STU09 receiving water is routinely sampled at the TFC-R003 location.

Attachment B

Self-Monitoring Reports

Self-Monitoring Report
LLNL Treatment Facility A (TFA)
AREA TFA

1. Reporting Period: Business Month **January** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

December **31**
January **01 02 03 04 05 06 07 08 09 10 11 12 13 14 15**
16 17 18 19 20 21 22 23 24 25 26 27 28 29

Total monthly time facility operated (hours): **728**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**01-04-2010**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**18.3**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-408	**922,900**	**23.9**
W-109	**1,278,400**	**29.8**
W-457	**245,100**	**5.9**
W-522	**0**	**0.0**
W-614	**437,100**	**10.2**
W-712	**320,700**	**7.4**
W-714	**347,100**	**8.0**
W-904	**1,491,800**	**32.7**
W-415	**1,684,000**	**40.7**
W-518	**0**	**0.0**
W-903	**0**	**0.0**
W-605	**378,900**	**8.7**
W-262	**0**	**0.0**
W-1004	**495,100**	**11.5**
W-1009	**1,014,500**	**22.7**
W-1001	**150,500**	**3.4**
Total:	**8,766,100**	**204.9**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
West Perimeter Drainage Channel	**TFB-R002**	**4,383,050**

Self-Monitoring Report (cont'd)
LLNL Treatment Facility A (TFA)
AREA TFA

Arroyo Seco **TFG-ASW** **4,383,050**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **01-29-2010**

Self-Monitoring Report
LLNL Treatment Facility A (TFA)
AREA TFA

1. Reporting Period: Business Month **February** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

January	**30**	**31**													
February	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**				

Total monthly time facility operated (hours): **682**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**02-02-2010**
Influent pH:	**7.0**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**18**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-408	**967,700**	**23.4**
W-605	**356,700**	**8.8**
W-457	**223,600**	**5.6**
W-518	**0**	**0.0**
W-522	**0**	**0.0**
W-614	**406,900**	**10.2**
W-712	**294,800**	**7.4**
W-714	**326,400**	**8.1**
W-903	**0**	**0.0**
W-904	**1,355,700**	**35.1**
W-415	**1,507,100**	**37.4**
W-262	**0**	**0.0**
W-109	**1,199,300**	**29.5**
W-1009	**973,000**	**24.1**
W-1004	**464,000**	**11.5**
W-1001	**146,700**	**3.6**
Total:	**8,221,900**	**204.7**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
West Perimeter Drainage Channel	**TFB-R002**	**4,110,950**

Self-Monitoring Report (cont'd)
LLNL Treatment Facility A (TFA)
AREA TFA

Arroyo Seco	**TFG-ASW**	**4,110,950**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **02-28-2010**

Self-Monitoring Report
LLNL Treatment Facility A (TFA)
AREA TFA

1. Reporting Period: Business Month **March** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

February	**27**	**28**													
March	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**

Total monthly time facility operated (hours): **805**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**03-01-2010**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**17.8**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-408	**1,235,500**	**26.5**
W-605	**410,600**	**8.8**
W-457	**292,900**	**5.8**
W-518	**0**	**0.0**
W-522	**0**	**0.0**
W-614	**471,200**	**10.0**
W-712	**336,500**	**7.2**
W-714	**379,900**	**8.0**
W-415	**1,775,800**	**37.2**
W-109	**1,496,600**	**31.3**
W-1001	**167,900**	**3.6**
W-903	**0**	**0.0**
W-904	**1,741,200**	**36.2**
W-262	**0**	**0.0**
W-1009	**1,111,400**	**23.6**
W-1004	**534,600**	**11.8**
Total:	**9,954,100**	**210.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
West Perimeter Drainage Channel	**TFB-R002**	**4,977,050**

Self-Monitoring Report (cont'd)
LLNL Treatment Facility A (TFA)
AREA TFA

Arroyo Seco **TFG-ASW** **4,977,050**

6. Comments:
W-408 accumulator not functioning. W-408 total estimated.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **04-03-2010**

Self-Monitoring Report
LLNL Solar Treatment Unit 06 (STU06)
AREA TFA-E

1. Reporting Period: Business Month **January** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

December **31**
January **01 02 03 04 05 06** 07 08 09 10 11 12 13 14 15
16 17 18 19 20 21 22 23 24 25 26 27 28

Total monthly time facility operated (hours): **191**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**01-06-2010**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**13.9**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-254	**19,468**	**1.5**
Total:	**19,468**	**1.5**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Seco	**TFG-ASW**	**19,468**

6. Comments:

Switched from two pumps operating in W-254 to one pump on 1-5-10. System went down on 1-21-10 due to network problems. Unable to restart. Accumulator and hour readings estimated from sensorgraph.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Carrazco Date: **01-28-2010**

Self-Monitoring Report
LLNL Solar Treatment Unit 06 (STU06)
AREA TFA-E

1. Reporting Period: Business Month **February** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

January	29	30	31												
February	01	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**				

Total monthly time facility operated (hours): **291**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**02-03-2010**
Influent pH:	**7.0**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**16.1**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-254	**24,843**	**1.4**
Total:	**24,843**	**1.4**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Seco	**TFG-ASW**	**24,843**

6. Comments:
Strategy reloaded on 2-2-10 and facility restarted.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Kawaguchi Date: **02-28-2010**

Self-Monitoring Report
LLNL Solar Treatment Unit 06 (STU06)
AREA TFA-E

1. Reporting Period: Business Month **March** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

February	**27**	**28**													
March	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**

Total monthly time facility operated (hours): **534**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**03-02-2010**
Influent pH:	**7.0**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**16**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-254	**46,081**	**1.4**
Total:	**46,081**	**1.4**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Seco	**TFG-ASW**	**46,081**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Carrazco Date: **04-03-2010**

Self-Monitoring Report
LLNL Treatment Facility B (TFB)
AREA TFB

1. Reporting Period: Business Month **January** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

December **31**
January **01 02 03 04 05 06 07 08 09 10 11 12** 13 14 15
16 17 18 19 20 21 22 23 24 25 26 27 28

Total monthly time facility operated (hours): **646**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**01-04-2010**
Influent pH:	**7.0**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**17.9**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-357	**225,400**	**5.9**
W-621	**264,200**	**6.7**
W-620	**208,400**	**5.4**
W-610	**258,200**	**6.6**
W-704	**685,800**	**17.9**
W-655	**341,100**	**9.1**
W-1423	**191,000**	**4.7**
Total:	**2,174,100**	**56.3**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
West Perimeter Drainage Channel	**TFB-R002**	**2,174,100**

6. Comments:
Facility down on 1-18-10 due to low air stripper flow. Restarted on 1-19-10.
Facility down on 1-26-10 due to air stripper high level. Unable to restart.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Cavagnaro Date: **01-28-2010**

Land Observation Report date:
TFB-R002 - West Perimeter Drainage Channel

1. Reporting Period: Business Month **January** Year **2010**

2. Date compliance sampling performed **01-04-2010**

3. Weather Conditions:

Average air tempertaure (°C):	**9.5**
6-day total precipitation (in):	**.01**
Average wind speed/direction (mph):	**3/ E**

4. Receiving Data:

Sample Location	pH	Temperature (C)
Receiving Water	**7.5**	**16.9**

5. Land Observations, as "Yes" or "No", for reporting month:

Visual Observations	Effluent	Receiving Water
Floating and Suspended Materials of Waste Origin	**No**	**No**
Odor	**No**	**No**
Discoloration and Turbidity	Not Required	**No**
Evidence of Beneficial Water Use	Not Required	**No**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **01-28-2010**

Self-Monitoring Report
LLNL Treatment Facility B (TFB)
AREA TFB

1. Reporting Period: Business Month **February** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

January	**29**	**30**	**31**											
February	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**				

Total monthly time facility operated (hours): **678**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**02-02-2010**
Influent pH:	**7.0**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**18**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-357	**239,600**	**5.8**
W-610	**287,000**	**7.3**
W-621	**292,900**	**7.1**
W-620	**217,300**	**5.4**
W-704	**692,600**	**17.6**
W-655	**355,600**	**8.9**
W-1423	**208,100**	**5.2**
Total:	**2,293,100**	**57.3**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
West Perimeter Drainage Channel	**TFB-R002**	**2,293,100**

6. Comments:
System started on 1-29-10.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **02-28-2010**

Land Observation Report date:
TFB-R002 - West Perimeter Drainage Channel

1. Reporting Period: Business Month **February** Year **2010**

2. Date compliance sampling performed **02-02-2010**

3. Weather Conditions:

Average air tempertaure (°C):	**9.2**
6-day total precipitation (in):	**.21**
Average wind speed/direction (mph):	**2/ SE**

4. Receiving Data:

Sample Location	pH	Temperature (C)
Receiving Water	**N/M**	**N/M**

5. Land Observations, as "Yes" or "No", for reporting month:

Visual Observations	Effluent	Receiving Water
Floating and Suspended Materials of Waste Origin	**No**	**No**
Odor	**No**	**No**
Discoloration and Turbidity	Not Required	**No**
Evidence of Beneficial Water Use	Not Required	**No**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Kawazoe Date: **02-28-2010**

Self-Monitoring Report
LLNL Treatment Facility B (TFB)
AREA TFB

1. Reporting Period: Business Month **March** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

February	**27**	**28**													
March	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**

Total monthly time facility operated (hours): **803**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**03-01-2010**
Influent pH:	**7.0**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**18**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-357	**282,700**	**5.9**
W-610	**340,300**	**7.2**
W-621	**343,500**	**7.5**
W-620	**252,600**	**5.3**
W-704	**844,400**	**17.8**
W-655	**413,900**	**8.6**
W-1423	**241,600**	**5.2**
Total:	**2,719,000**	**57.5**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
West Perimeter Drainage Channel	**TFB-R002**	**2,719,000**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **04-03-2010**

Land Observation Report date:
TFB-R002 - West Perimeter Drainage Channel

1. Reporting Period: Business Month **March** Year **2010**

2. Date compliance sampling performed **03-01-2010**

3. Weather Conditions:

Average air tempertaure (°C):	**11.4**
6-day total precipitation (in):	**.37**
Average wind speed/direction (mph):	**4/ SSE**

4. Receiving Data:

Sample Location	pH	Temperature (C)
Receiving Water	**N/M**	**N/M**

5. Land Observations, as "Yes" or "No", for reporting month:

Visual Observations	Effluent	Receiving Water
Floating and Suspended Materials of Waste Origin	**No**	**No**
Odor	**No**	**No**
Discoloration and Turbidity	Not Required	**No**
Evidence of Beneficial Water Use	Not Required	**No**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **04-03-2010**

Self-Monitoring Report
LLNL Treatment Facility C (TFC)
AREA TFC

1. Reporting Period: Business Month **January** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

December	30	31													
January	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	**29**	

Total monthly time facility operated (hours): **1**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**01-29-2010**
Influent pH:	**7.0**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**18.2**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-701	**0**	**0.0**
W-1015	**436**	**5.5**
W-1116	**121**	**1.9**
W-1103	**313**	**4.1**
W-1102	**0**	**0.0**
W-1104	**1,919**	**23.2**
Total:	**2,789**	**34.7**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**2,789**

6. Comments:

Facility upgrades completed. System started in day-only operations as part of Test and Verification Process on 1-29-10.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Carrazco Date: **01-30-2010**

Land Observation Report date:
TFC-R003 - Arroyo Las Positas

1. Reporting Period: Business Month **January** Year **2010**

2. Date compliance sampling performed **01-29-2010**

3. Weather Conditions:

Average air tempertaure (°C):	**8.7**
6-day total precipitation (in):	**.37**
Average wind speed/direction (mph):	**2/ SSE**

4. Receiving Data:

Sample Location	pH	Temperature (C)
Receiving Water	**N/M**	**N/M**

5. Land Observations, as "Yes" or "No", for reporting month:

Visual Observations	Effluent	Receiving Water
Floating and Suspended Materials of Waste Origin	**No**	**No**
Odor	**No**	**No**
Discoloration and Turbidity	Not Required	**No**
Evidence of Beneficial Water Use	Not Required	**No**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Castagna Date: **01-30-2010**

Self-Monitoring Report
LLNL Treatment Facility C (TFC)
AREA TFC

1. Reporting Period: Business Month **February** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

January	**30**	31												
February	**01**	02	03	04	05	06	07	**08**	**09**	**10**	**11**	**12**	13	14	15
	16	**17**	**18**	**19**	20	21	22	23	24	25					

Total monthly time facility operated (hours): **54**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**02-10-2010**
Influent pH:	**7.0**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**18.1**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-701	**0**	**0.0**
W-1015	**20,896**	**6.7**
W-1103	**10,871**	**3.6**
W-1104	**81,712**	**25.8**
W-1116	**5,697**	**1.7**
W-1102	**2**	**0.0**
Total:	**119,178**	**37.8**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**119,178**

6. Comments:

System operating during business hours only. System down from 2-2-10 through 2-7-10 for interlock checks. System secured on 2-19-10 to repair leaks on air stripper lids.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **02-25-2010**

Land Observation Report date:
TFC-R003 - Arroyo Las Positas

1. Reporting Period: Business Month **February** Year **2010**

2. Date compliance sampling performed **02-10-2010**

3. Weather Conditions:

Average air tempertaure (°C):	**9.6**
6-day total precipitation (in):	**.66**
Average wind speed/direction (mph):	**4/ S**

4. Receiving Data:

Sample Location	pH	Temperature (C)
Receiving Water	**7.0**	**11.7**

5. Land Observations, as "Yes" or "No", for reporting month:

Visual Observations	Effluent	Receiving Water
Floating and Suspended Materials of Waste Origin	**No**	**No**
Odor	**No**	**No**
Discoloration and Turbidity	Not Required	**No**
Evidence of Beneficial Water Use	Not Required	**No**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **02-25-2010**

Self-Monitoring Report
LLNL Treatment Facility C (TFC)
AREA TFC

1. Reporting Period: Business Month **March** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

February	26	**27**	**28**												
March	**01**	**02**	**03**	**04**	**05**	06	07	**08**	**09**	**10**	11	**12**	13	14	15
	16	**17**	18	19	20	21	22	23	**24**	25	**26**	**27**	**28**	29	30	31

Total monthly time facility operated (hours): **80**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**03-01-2010**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**18**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-701	**0**	**0.0**
W-1015	**21,690**	**6.7**
W-1103	**10,987**	**3.7**
W-1104	**103,392**	**25.6**
W-1116	**6,974**	**1.8**
W-1102	**1,437**	**0.0**
Total:	**144,480**	**37.8**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**144,480**

6. Comments:
System run in day-only operation mode due to air flow instrumentation issues.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **03-31-2010**

Land Observation Report date:
TFC-R003 - Arroyo Las Positas

1. Reporting Period: Business Month **March** Year **2010**

2. Date compliance sampling performed **03-01-2010**

3. Weather Conditions:

Average air tempertaure (°C):	**11.4**
6-day total precipitation (in):	**.37**
Average wind speed/direction (mph):	**4/ SSE**

4. Receiving Data:

Sample Location	pH	Temperature (C)
Receiving Water	**N/M**	**N/M**

5. Land Observations, as "Yes" or "No", for reporting month:

Visual Observations	Effluent	Receiving Water
Floating and Suspended Materials of Waste Origin	**No**	**No**
Odor	**No**	**No**
Discoloration and Turbidity	Not Required	**No**
Evidence of Beneficial Water Use	Not Required	**No**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **03-31-2010**

Self-Monitoring Report
LLNL Mini Treatment Unit 1 (MTU1)
AREA TFC-E

1. Reporting Period: Business Month **January** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

December	31														
January	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-413	**0**	**0.0**
W-368	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**0**

6. Comments:
Facility was down waiting for resin columns to be conditioned. Due to TFC main facility being down for up grades conditioning could not be completed.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **01-30-2010**

Self-Monitoring Report
LLNL Mini Treatment Unit 1 (MTU1)
AREA TFC-E

1. Reporting Period: Business Month **February** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

January	30	31													
February	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**				

Total monthly time facility operated (hours): **590**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**02-02-2010**
Influent pH:	**6.5**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**19.8**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-413	**604,392**	**16.9**
W-368	**197,619**	**5.5**
Total:	**802,011**	**22.4**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**802,011**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **03-01-2010**

Self-Monitoring Report
LLNL Mini Treatment Unit 1 (MTU1)
AREA TFC-E

1. Reporting Period: Business Month **March** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

February	27	28													
March	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**

Total monthly time facility operated (hours): **692**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**03-03-2010**
Influent pH:	**6.5**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**20.1**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-413	**721,825**	**17.4**
W-368	**239,051**	**5.7**
Total:	**960,876**	**23.1**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**960,876**

6. Comments:

Facility was down on February 27 and 28 for resin work and was restarted on March 1 at 1400 hours. Facility was down again from march 27 at 1100 hours and restarted March 28 at 1200 hours.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **05-01-2010**

Self-Monitoring Report
LLNL Portable Treatment Unit 1 (PTU1)
AREA TFC-SE

1. Reporting Period: Business Month **January** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

December **31**
January **01 02 03 04 05 06 07 08** 09 10 **11 12 13 14 15**
16 17 18 19 20 21 22 23 24 **25 26 27 28 29**

Total monthly time facility operated (hours): **587**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**01-05-2010**
Influent pH:	**7.0**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**19.7**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1213	**279,559**	**8.0**
W-2201	**424,780**	**12.2**
Total:	**704,339**	**20.2**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**704,339**

6. Comments:

System secured on 1-8-10 to repair leak. System restarted on 1-11-10. System secured on 1-13-10 to repair leak. System restarted on 1-14-10. System went down on 1-23-10 due to possible power surge. Restarted system on 1-25-10. System secured on 1-29-10 due to spent ion exchange columns.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Gawaga Jr. Date: **01-29-2010**

Self-Monitoring Report
LLNL Portable Treatment Unit 1 (PTU1)
AREA TFC-SE

1. Reporting Period: Business Month **February** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

January	**30**	**31**													
February	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**				

Total monthly time facility operated (hours): **653**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**02-02-2010**
Influent pH:	**7.0**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**19.7**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1213	**311,181**	**8.1**
W-2201	**472,037**	**12.2**
Total:	**783,218**	**20.3**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**783,218**

6. Comments:
New ion exchange columns installed and facility restarted on 1-30-10.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Cavazos Jr. Date: **02-26-2010**

Self-Monitoring Report
LLNL Portable Treatment Unit 1 (PTU1)
AREA TFC-SE

1. Reporting Period: Business Month **March** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

February	**27**	**28**													
March	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**

Total monthly time facility operated (hours): **800**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**03-02-2010**
Influent pH:	**7.0**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**20.1**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1213	**382,435**	**8.0**
W-2201	**578,447**	**12.2**
Total:	**960,882**	**20.2**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**960,882**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Cawagnaro Date: **03-31-2010**

Self-Monitoring Report
LLNL Treatment Facility D (TFD)
AREA TFD

1. Reporting Period: Business Month **January** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

December **31**
January **01 02 03 04 05 06 07 08 09 10 11 12 13 14 15**
16 17 18 19 20 21 22 23 24 25 26 27 28 29

Total monthly time facility operated (hours): **728**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**01-05-2010**
Influent pH:	**7.0**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**18.3**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-906	**175,000**	**4.1**
W-907-2	**0**	**0.0**
W-351	**48,000**	**1.1**
W-653	**8,400**	**0.2**
W-1206	**33,300**	**11.5**
W-1208	**1,014,900**	**23.7**
W-2011	**0**	**0.0**
W-2101	**7,500**	**0.4**
W-2102	**0**	**0.0**
Total:	**1,287,100**	**41.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**1,287,100**

6. Comments:
Started W-1206 on 1-5-10. W-1206 down on 1-8-10 due to breaker trip. W-1206 to remain down. W-2101 secured on 1-11-10 due to flow meter failure.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Self-Monitoring Report (cont'd)
LLNL Treatment Facility D (TFD)
AREA TFD

Operator Signature: Scott Gavagnin Date: **01-30-2010**

Self-Monitoring Report
LLNL Treatment Facility D (TFD)
AREA TFD

1. Reporting Period: Business Month **February** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

January	**30**	**31**												
February	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	20	21	**22**	23	24	25					

Total monthly time facility operated (hours): **520**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**02-01-2010**
Influent pH:	**7.0**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**20.6**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-907-2	**0**	**0.0**
W-653	**6,600**	**0.1**
W-906	**124,000**	**4.0**
W-351	**36,000**	**1.2**
W-1206	**0**	**0.0**
W-1208	**714,300**	**23.3**
W-2101	**0**	**0.0**
W-2102	**0**	**0.0**
W-2011	**0**	**0.0**
Total:	**880,900**	**28.6**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**880,900**

6. Comments:

Facility down on 2-8-10 due to high manifold pressure. Restarted on 2-8-10.
Facility down on 2-19-10 due to high manifold pressure. Restarted on 2-22-10.
Secured system on 2-22-10 to descale air strippers.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Self-Monitoring Report (cont'd)
LLNL Treatment Facility D (TFD)
AREA TFD

Operator Signature: _____ Date: **02-25-2010**

Self-Monitoring Report
LLNL Treatment Facility D (TFD)
AREA TFD

1. Reporting Period: Business Month **March** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

February	26	27	28												
March	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	**19**	20	21	22	23	24	25	26	27	28	29	30	31

Total monthly time facility operated (hours): **7**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**03-19-2010**
Influent pH:	**7.0**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**20.4**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-907-2	**0**	**0.0**
W-653	**100**	**0.0**
W-906	**1,600**	**4.0**
W-351	**400**	**1.1**
W-1206	**0**	**0.0**
W-1208	**9,100**	**23.2**
W-2101	**0**	**0.0**
W-2102	**0**	**0.0**
W-2011	**0**	**0.0**
Total:	**11,200**	**28.3**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**11,200**

6. Comments:

Air stripper descaling and lid modifications completed on 3-19-10 and facility started. Leaks detected in tanks and system secured on 3-19-10.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Self-Monitoring Report (cont'd)
LLNL Treatment Facility D (TFD)
AREA TFD

Operator Signature: _____ Date: **03-31-2010**

Self-Monitoring Report
LLNL Portable Treatment Unit 8 (PTU8)
AREA TFD-E

1. Reporting Period: Business Month **January** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

December **31**
January **01 02 03 04 05 06 07 08 09 10 11 12 13 14 15**
16 17 18 19 20 21 22 23 24 25 26 27 28 29

Total monthly time facility operated (hours): **671**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**01-06-2010**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**16.1**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1253	**0**	**0.0**
W-1255	**0**	**0.0**
W-1301	**37,800**	**0.9**
W-1404	**23,100**	**0.5**
W-1550	**37,100**	**1.8**
W-1307	**248,400**	**6.2**
W-1306	**10,100**	**0.3**
W-1303	**0**	**0.0**
W-2006	**400**	**0.0**
W-2203	**0**	**0.0**
Total:	**356,900**	**9.7**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**356,900**

6. Comments:

Facility down on 1-18-10 due to low flow. Restarted on 1-19-10. Facility down on 1-19-10 due to low flow. Restarted on 1-20-10. Hours operated estimated from logbook.

Self-Monitoring Report (cont'd)
LLNL Portable Treatment Unit 8 (PTU8)
AREA TFD-E

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Kawaguchi Date: **01-30-2010**

Self-Monitoring Report
LLNL Portable Treatment Unit 8 (PTU8)
AREA TFD-E

1. Reporting Period: Business Month **February** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

January	**30**	**31**													
February	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**				

Total monthly time facility operated (hours): **665**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**02-01-2010**
Influent pH:	**7.0**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**21.5**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1255	**0**	**0.0**
W-1253	**0**	**0.0**
W-1307	**243,700**	**6.1**
W-1303	**0**	**0.0**
W-1550	**74,100**	**1.9**
W-1306	**10,700**	**0.2**
W-1301	**36,900**	**0.9**
W-1404	**16,500**	**0.5**
W-2006	**400**	**0.3**
W-2203	**0**	**0.0**
Total:	**382,300**	**9.9**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**382,300**

6. Comments:
Facility operational hours estimated from logbook.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Self-Monitoring Report (cont'd)
LLNL Portable Treatment Unit 8 (PTU8)
AREA TFD-E

Operator Signature: Scott Kawaguchi Date: **02-28-2010**

Self-Monitoring Report
LLNL Portable Treatment Unit 8 (PTU8)
AREA TFD-E

1. Reporting Period: Business Month **March** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

February	**27**	**28**													
March	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**

Total monthly time facility operated (hours): **772**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**03-02-2010**
Influent pH:	**7.0**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**18.2**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1253	**0**	**0.0**
W-1255	**0**	**0.0**
W-1307	**281,300**	**6.1**
W-1550	**82,400**	**1.8**
W-1306	**10,300**	**0.3**
W-1301	**48,000**	**0.9**
W-1404	**6,000**	**0.4**
W-1303	**0**	**0.0**
W-2006	**100**	**0.2**
W-2203	**0**	**0.0**
Total:	**428,100**	**9.7**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**428,100**

6. Comments:

Facility went down on 3-11-10 due to breaker trip. Facility restarted on 3-12-10.
Facility hours estimated from logbook.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Self-Monitoring Report (cont'd)
LLNL Portable Treatment Unit 8 (PTU8)
AREA TFD-E

Operator Signature: _____ Date: **04-03-2010**

Self-Monitoring Report
LLNL Portable Treatment Unit 10 (PTU10)
AREA TFD-HPD

1. Reporting Period: Business Month **January** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

December **31**
January **01 02 03 04 05 06 07 08 09 10 11 12 13 14 15**
16 17 18 19 20 21 22 23 24 25 26 27 28 29

Total monthly time facility operated (hours): **728**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**01-13-2010**
Influent pH:	**7.5**
Effluent pH:	**7.6**
Effluent Temperature (°C):	**17.8**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1254	**651,900**	**15.0**
W-1653	**0**	**0.0**
W-1657	**0**	**0.0**
W-1654	**0**	**0.0**
W-1655	**0**	**0.0**
W-1551	**0**	**0.0**
W-1650	**0**	**0.0**
W-1652	**0**	**0.0**
W-1552	**0**	**0.0**
W-1651	**0**	**0.0**
W-1656	**0**	**0.0**
Total:	**651,900**	**15.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**651,900**

6. Comments:
NA

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Billy D. Hall Jr. Date: **02-01-2010**

Self-Monitoring Report
LLNL Portable Treatment Unit 10 (PTU10)
AREA TFD-HPD

1. Reporting Period: Business Month **February** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

January	**30**	**31**													
February	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**				

Total monthly time facility operated (hours): **640**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**02-03-2010**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**19.6**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1254	**571,993**	**15.0**
W-1650	**0**	**0.0**
W-1651	**0**	**0.0**
W-1653	**0**	**0.0**
W-1654	**0**	**0.0**
W-1656	**0**	**0.0**
W-1657	**0**	**0.0**
W-1551	**0**	**0.0**
W-1652	**0**	**0.0**
W-1552	**0**	**0.0**
W-1655	**0**	**0.0**
Total:	**571,993**	**15.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**571,993**

6. Comments:

The facility was shutdown for approximately 20 hrs. (2/13/10, 2/19/10, and 2/20/10) to allow workmen to in- stall AC / heat pump unit.

Self-Monitoring Report (cont'd)
LLNL Portable Treatment Unit 10 (PTU10)
AREA TFD-HPD

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Billy O. Kirkland Jr. Date: **03-01-2010**

Self-Monitoring Report
LLNL Portable Treatment Unit 10 (PTU10)
AREA TFD-HPD

1. Reporting Period: Business Month **March** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

February	**27**	**28**														
March	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**	
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**

Total monthly time facility operated (hours): **799**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**03-03-2010**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**18.5**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1254	**711,228**	**15.0**
W-1650	**0**	**0.0**
W-1651	**0**	**0.0**
W-1653	**0**	**0.0**
W-1654	**0**	**0.0**
W-1656	**0**	**0.0**
W-1657	**0**	**0.0**
W-1551	**0**	**0.0**
W-1652	**0**	**0.0**
W-1552	**0**	**0.0**
W-1655	**0**	**0.0**
Total:	**711,228**	**15.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**711,228**

6. Comments:
NA

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Self-Monitoring Report (cont'd)
LLNL Portable Treatment Unit 10 (PTU10)
AREA TFD-HPD

Operator Signature: _____ Date: **04-01-2010**

Self-Monitoring Report
LLNL Portable Treatment Unit 2 (PTU2)
AREA TFD-S

1. Reporting Period: Business Month **January** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

December	**31**														
January	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	12	13	14	15
	16	17	18	19	**20**	21	22	23	24	25	26	27	28	29	

Total monthly time facility operated (hours): **300**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**01-20-2010**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**20.5**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1503	**321,760**	**18.5**
W-1510	**177,904**	**10.2**
W-1504	**145,620**	**8.3**
Total:	**645,284**	**37.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**645,284**

6. Comments:

System secured from 1/11/10 to 1/20/10 and 1/20/10 through 1/29/10 due to drilling activities nearby. System was started on 1/20/10 to collect January 2010 compliance readings and samples.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **01-29-2010**

Self-Monitoring Report
LLNL Portable Treatment Unit 2 (PTU2)
AREA TFD-S

1. Reporting Period: Business Month **February** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

January	30	31													
February	01	02	03	04	05	06	07	08	09	10	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**				

Total monthly time facility operated (hours): **364**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**02-11-2010**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**20.8**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1503	**208,176**	**0.0**
W-1510	**217,954**	**10.0**
W-1504	**181,811**	**8.6**
Total:	**607,941**	**18.6**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**607,941**

6. Comments:

System secured from 1/20/10 to 2/11/10 due to drilling activities nearby.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **02-26-2010**

Self-Monitoring Report
LLNL Portable Treatment Unit 2 (PTU2)
AREA TFD-S

1. Reporting Period: Business Month **March** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

February	**27**	**28**														
March	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**	
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**

Total monthly time facility operated (hours): **803**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**03-03-2010**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**20.9**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1503	**871,768**	**18.2**
W-1510	**373,156**	**9.9**
W-1504	**392,806**	**8.1**
Total:	**1,637,730**	**36.2**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**1,637,730**

6. Comments:

Well W-1510 operation intermittent due to flow meter malfunction.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **04-06-2010**

Self-Monitoring Report
LLNL Portable Treatment Unit 11 (PTU11)
AREA TFD-SE

1. Reporting Period: Business Month January Year 2010

2. Dates (in **bold** and underline) treated ground water was discharged

December **31**
January **01 02 03 04 05 06 07 08 09 10 11 12 13 14 15**
16 17 18 19 20 21 22 23 24 25 26 27 28 29

Total monthly time facility operated (hours): **729**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**01-06-2010**
Influent pH:	**7.0**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**17.6**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-314	**87,527**	**0.0**
W-1308	**111,944**	**2.6**
W-1904	**0**	**0.0**
W-1403	**0**	**0.0**
W-2005	**15,115**	**0.3**
SIP-ETC-201	**0**	**0.0**
Total:	**214,586**	**2.9**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**214,586**

6. Comments:

W-314 extraction well started 1/14/10. Operations were suspended 1/21/10 due to leak at well sanitary seal. Leak was repaired 1/28/10, and W-314 was restarted 1/28/10.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thomas Date: **02-02-2010**

Self-Monitoring Report
LLNL Portable Treatment Unit 11 (PTU11)
AREA TFD-SE

1. Reporting Period: Business Month **February** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

January	**30**	**31**													
February	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**				

Total monthly time facility operated (hours): 648

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**02-03-2010**
Influent pH:	**7.0**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**20.3**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-314	**395,919**	**12.0**
W-1308	**97,709**	**2.5**
W-1904	**0**	**0.0**
W-1403	**0**	**0.0**
W-2005	**10,918**	**0.2**
SIP-ETC-201	**0**	**0.0**
Total:	**504,546**	**14.7**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**504,546**

6. Comments:

Found facility shutdown 2/2/10 @ 08:38 hrs. due to system leak alarm caused by the removal of W-1403 well pump. Facility was restarted 2/2 @ 14:38 hrs. Facility was secured 2/12/10 @ 13:30 hrs. to install air conditioning unit inside PTU-11. Facility was restarted 2/13/10 @ 13:20 hrs. In accordance with W-314 start-up plan, flow rates for this extraction well varied during reporting month due to efforts to evaluate pump performance.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Self-Monitoring Report (cont'd)
LLNL Portable Treatment Unit 11 (PTU11)
AREA TFD-SE

Operator Signature: Sam Thomas Date: **03-01-2010**

Self-Monitoring Report
LLNL Portable Treatment Unit 11 (PTU11)
AREA TFD-SE

1. Reporting Period: Business Month **March** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

February	**27**	**28**													
March	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**2**	**-**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**

Total monthly time facility operated (hours): **769**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**02-27-2010**
Influent pH:	**7.0**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**18.7**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-314	**467,229**	**9.8**
W-1308	**123,721**	**2.6**
W-1904	**0**	**0.0**
W-1403	**0**	**0.0**
W-2005	**10,806**	**0.2**
SIP-ETC-201	**0**	**0.0**
Total:	**601,756**	**12.6**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**601,756**

6. Comments:

Facility secured 3/9/10 for HVAC installation. Facility was restarted 3/10/10 @ 10:00 AM.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **03-31-2010**

Self-Monitoring Report
LLNL Portable Treatment Unit 12 (PTU12)
AREA TFD-SS

1. Reporting Period: Business Month **January** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

December **31**
January **01** **02** **03** **04** **05** **06** **07** **08** 09 10 11 12 13 14 15
16 17 18 **19** **20** **21** **22** **23** **24** **25** **26** **27** **28** **29**

Total monthly time facility operated (hours): **469**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**01-19-2010**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**18.9**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1523	**92,730**	**0.0**
W-1603	**197,213**	**13.4**
W-1602	**63,697**	**0.0**
W-1601	**15,563**	**0.0**
Total:	**369,203**	**13.4**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**369,203**

6. Comments:

System secure from 1/8/10 to 1/19/10 for discharge pump and W-1603 influent pipeline repair.

7. I certify that the information in t report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **01-30-2010**

Self-Monitoring Report
LLNL Portable Treatment Unit 12 (PTU12)
AREA TFD-SS

1. Reporting Period: Business Month **February** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

January	**30**	**31**													
February	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**				

Total monthly time facility operated (hours): **665**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**02-11-2010**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**19.4**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1523	**0**	**0.0**
W-1603	**537,071**	**13.3**
W-1602	**6,888**	**0.0**
W-1601	**1,404**	**0.0**
Total:	**545,363**	**13.3**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**545,363**

6. Comments:
Air stripper maintenance performed on 2/4/10.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **03-02-2010**

Self-Monitoring Report
LLNL Portable Treatment Unit 12 (PTU12)
AREA TFD-SS

1. Reporting Period: Business Month **March** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

February	**27**	**28**													
March	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**

Total monthly time facility operated (hours): **802**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**03-11-2010**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**20**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1523	**123,063**	**0.0**
W-1603	**652,197**	**13.8**
W-1602	**250,151**	**5.0**
W-1601	**48,084**	**0.9**
Total:	**1,073,495**	**19.7**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**1,073,495**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **04-07-2010**

Self-Monitoring Report
LLNL Portable Treatment Unit 6 (PTU6)
AREA TFD-W

1. Reporting Period: Business Month **January** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

December	31														
January	01	02	03	04	05	06	07	08	09	10	**11**	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	

Total monthly time facility operated (hours): **5**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**01-11-2010**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**20.1**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1216	**0**	**0.0**
W-1215	**0**	**0.0**
W-1902	**5,298**	**17.0**
Total:	**5,298**	**17.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**5,298**

6. Comments:

System secure from 12/30/09 to 1/11/10 and 1/11/10 through 1/29/10 for pending electronic repairs to the system interlock controls. The system was started on 1/11/10 to collect January 2010 compliance readings and samples.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **01-29-2010**

Self-Monitoring Report
LLNL Portable Treatment Unit 6 (PTU6)
AREA TFD-W

1. Reporting Period: Business Month **February** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

January	30	31													
February	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	**17**	18	19	20	21	22	23	24	25	26				

Total monthly time facility operated (hours): **12**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**02-17-2010**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**21.5**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1215	**0**	**0.0**
W-1216	**0**	**0.0**
W-1902	**12,754**	**18.7**
Total:	**12,754**	**18.7**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**12,754**

6. Comments:

System secure from 1/11/10 to 2/17/10 and 2/17/10 through 2/26/10 for pending electronic repairs to the system interlock controls. The system was started on 2/17/10 to collect February 2010 compliance readings and samples.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **02-26-2010**

Self-Monitoring Report
LLNL Portable Treatment Unit 6 (PTU6)
AREA TFD-W

1. Reporting Period: Business Month **March** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

February	27	28														
March	01	02	03	04	**05**	06	07	08	09	10	11	12	13	14	**15**	
	16	17	18	**19**	20	21	22	23	24	**25**	**26**	**27**	**28**	**29**	30	**31**

Total monthly time facility operated (hours): **104**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**03-15-2010**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**21**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1215	**268**	**0.0**
W-1216	**215**	**10.8**
W-1902	**82,615**	**0.0**
Total:	**83,098**	**10.8**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**83,098**

6. Comments:

System operations for the month of March were limited to Testing and Verification (T & V), initial wellhead sampling, and facility compliance sampling.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **04-06-2010**

Self-Monitoring Report
LLNL Vapor Extraction System 11 (VES11)
AREA VTFD-ETCS

1. Reporting Period: Business Month January Year 2010

2. Dates (in **bold** and underline) treatment facility operated

December **31**
January **01** **02** **03** **04** **05** **06** **07** **08** **09** **10** **11** **12** **13** **14** **15**
16 **17** **18** **19** **20** **21** **22** **23** **24** **25** **26** **27** **28** **29**

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-1904	**0**	**0.0**	**0**	**0**	**0**
W-ETC-2004A	**247,179**	**5.7**	**-5.98**	**50**	**732**
W-ETC-2003	**622,954**	**14.1**	**-3.07**	**50**	**732**
W-ETC-2004B	**286,423**	**5.9**	**-3.87**	**50**	**732**
SIP-ETC-201	**0**	**0.0**	**0**	**0**	**0**
Total:	**1,156,556**	**25.7**			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Ann Thomas Date: **02-01-2010**

Self-Monitoring Report
LLNL Vapor Extraction System 11 (VES11)
AREA VTFD-ETCS

1. Reporting Period: Business Month **February** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

January	**30**	**31**												
February	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**				

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-1904	**0**	**0.0**	**0**	**0**	**0**
W-ETC-2004A	**229,504**	**5.6**	**-6.03**	**50**	**680**
W-ETC-2004B	**249,764**	**6.0**	**-3.92**	**50**	**680**
W-ETC-2003	**541,099**	**13.0**	**-4.34**	**50**	**680**
SIP-ETC-201	**0**	**0.0**	**0**	**0**	**0**
Total:	**1,020,367**	**24.6**			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **03-01-2010**

Self-Monitoring Report
LLNL Vapor Extraction System 11 (VES11)
AREA VTFD-ETCS

1. Reporting Period: Business Month **March** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

February	**27**	**28**													
March	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-1904	**0**	**0.0**	**0**	**0**	**0**
W-ETC-2004A	**269,138**	**5.6**	**-6.03**	**50**	**804**
W-ETC-2004B	**282,358**	**4.8**	**-4.01**	**50**	**804**
W-ETC-2003	**611,445**	**12.7**	**-4.96**	**50**	**804**
SIP-ETC-201	**0**	**0.0**	**0**	**0**	**0**
Total:	**1,162,941**	**23.1**			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **04-13-2010**

Self-Monitoring Report
LLNL Vapor Extraction System 07 (VES07)
AREA VTFD-HPD

1. Reporting Period: Business Month **January** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

December **31**
January **01 02 03 04 05 06 07 08 09 10 11 12 13 14 15**
16 17 18 19 20 21 22 23 24 25 26 27 28 29

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-1651	**0**	**0.0**	**0**	**0**	**0**
W-1653	**0**	**0.0**	**0**	**0**	**0**
W-1657	**0**	**0.0**	**0**	**0**	**0**
W-1654	**0**	**0.0**	**0**	**0**	**0**
W-1652	**0**	**0.0**	**0**	**0**	**0**
W-1552	**0**	**0.0**	**0**	**0**	**0**
W-1655	**0**	**0.0**	**0**	**0**	**0**
W-1656	**0**	**0.0**	**0**	**0**	**0**
W-1650	**0**	**0.0**	**0**	**0**	**0**
W-HPA-002A	**744,879**	**17.0**	**-23.9**	**66**	**732**
W-HPA-002B	**0**	**0.0**	**0**	**0**	**0**
Total:	**744,879**	**17.0**			

4. Comments:
NA

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Billy D. Kirkland Jr. Date: **02-01-2010**

Self-Monitoring Report
LLNL Vapor Extraction System 07 (VES07)
AREA VTFD-HPD

1. Reporting Period: Business Month **February** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

January	**30**	**31**													
February	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**				

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-1552	**0**	**0.0**	**0**	**0**	**0**
W-1650	**0**	**0.0**	**0**	**0**	**0**
W-1651	**0**	**0.0**	**0**	**0**	**0**
W-1653	**0**	**0.0**	**0**	**0**	**0**
W-1654	**0**	**0.0**	**0**	**0**	**0**
W-1652	**0**	**0.0**	**0**	**0**	**0**
W-1656	**0**	**0.0**	**0**	**0**	**0**
W-1657	**0**	**0.0**	**0**	**0**	**0**
W-1655	**0**	**0.0**	**0**	**0**	**0**
W-HPA-002A	**679,462**	**16.9**	**-23.9**	**61**	**682**
W-HPA-002B	**0**	**0.0**	**0**	**0**	**0**
Total:	**679,462**	**16.9**			

4. Comments:
NA

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Billy D. Kirkpatrick Date: **03-01-2010**

Self-Monitoring Report
LLNL Vapor Extraction System 07 (VES07)
AREA VTFD-HPD

1. Reporting Period: Business Month **March** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

February **27** **28**
March **01** **02** **03** **04** **05** **06** **07** **08** **09** **10** **11** **12** **13** **14** **15**
16 **17** **18** **19** **20** **21** **22** **23** **24** **25** **26** **27** **28** **29** **30** **31**

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-1552	**0**	**0.0**	**0**	**0**	**0**
W-1650	**0**	**0.0**	**0**	**0**	**0**
W-1651	**0**	**0.0**	**0**	**0**	**0**
W-1653	**0**	**0.0**	**0**	**0**	**0**
W-1654	**0**	**0.0**	**0**	**0**	**0**
W-1652	**0**	**0.0**	**0**	**0**	**0**
W-1656	**0**	**0.0**	**0**	**0**	**0**
W-1657	**0**	**0.0**	**0**	**0**	**0**
W-1655	**0**	**0.0**	**0**	**0**	**0**
W-HPA-002A	**849,476**	**17.6**	**-23.9**	**70**	**802**
W-HPA-002B	**0**	**0.0**	**0**	**0**	**0**
Total:	**849,476**	**17.6**			

4. Comments:
NA

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Billy D. Kuhl Jr. Date: **04-01-2010**

Self-Monitoring Report
LLNL Vapor Extraction System 13 (VES13)
AREA VTFD-HS

1. Reporting Period: Business Month **January** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

December **31**
January **01** **02** **03** **04** **05** **06** **07** **08** **09** **10** **11** **12** **13** **14** **15**
16 **17** **18** **19** **20** **21** **22** **23** **24** **25** **26** **27** **28** **29**

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-653	**9,286**	**0.1**	**-27.3**	**65**	**718**
W-2011	**0**	**0.0**	**0**	**0**	**718**
W-2101	**2,808**	**0.1**	**-27.3**	**65**	**718**
W-2102	**0**	**0.0**	**0**	**0**	**718**
Total:	**12,094**	**0.2**			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **01-29-2010**

Self-Monitoring Report
LLNL Vapor Extraction System 13 (VES13)
AREA VTFD-HS

1. Reporting Period: Business Month **February** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

January	**30**	**31**												
February	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	23	24	25					

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-653	**6,732**	**0.2**	**-27.6**	**64**	**580**
W-2101	**2,371**	**0.1**	**-27.6**	**84**	**580**
W-2102	**0**	**0.0**	**0**	**0**	**0**
W-2011	**0**	**0.0**	**0**	**0**	**0**
Total:	**9,103**	**0.2**			

4. Comments:

Secured extraction from W-2101 on 2-18-10 since the pump was not extracting water from the well. Both VES13 and TFD were secured on 2-22.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Cawazzi Date: **03-02-2010**

Self-Monitoring Report
LLNL Vapor Extraction System 13 (VES13)
AREA VTFD-HS

1. Reporting Period: Business Month **March** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

February	26	27	28												
March	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	**19**	20	21	22	23	24	25	26	27	28	29	30	31

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-653	**111**	**0.3**	**-27.5**	**64**	**6**
W-2101	**0**	**0.0**	**0**	**0**	**0**
W-2102	**0**	**0.0**	**0**	**0**	**0**
W-2011	**0**	**0.0**	**0**	**0**	**0**
Total:	**111**	**0.3**			

4. Comments:

System started on 9-19-10 in conjunction with TFD ground water treatment system. Secured on 9-19-10 as TFD ground water system was secured. Accumulator reading is an estimate due to software issues.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Kawazoe Date: **04-13-2010**

Self-Monitoring Report
LLNL Portable Treatment Unit 3 (PTU3)
AREA TFE-E

1. Reporting Period: Business Month **January** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

December **31**
January **01** **02** **03** **04** **05** **06** **07** **08** **09** **10** **11** **12** **13** **14** 15
16 17 18 **19** **20** **21** **22** **23** **24** **25** **26** **27** **28** **29**

Total monthly time facility operated (hours): **617**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**01-13-2010**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**21.1**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-566	**277,787**	**7.5**
W-1109	**83,704**	**2.2**
W-1903	**0**	**0.0**
W-1909	**0**	**0.0**
W-2305	**179**	**0.0**
Total:	**361,670**	**9.7**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**361,670**

6. Comments:
System secure for 1/14/10 to 1/19/10 for drainage ditch cleaning.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **01-29-2010**

Self-Monitoring Report
LLNL Portable Treatment Unit 3 (PTU3)
AREA TFE-E

1. Reporting Period: Business Month **February** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

January	**30**	**31**												
February	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26				

Total monthly time facility operated (hours): **315**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**02-16-2010**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**21.4**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-566	**140,530**	**8.2**
W-1109	**43,036**	**1.9**
W-1903	**0**	**0.0**
W-1909	**0**	**0.0**
W-2305	**86**	**1.6**
Total:	**183,652**	**11.7**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**183,652**

6. Comments:

System secure from 2/11/10 to 2/16/10 and from 2/16/10 through 2/26/10 for drilling activities nearby.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **02-26-2010**

Self-Monitoring Report
LLNL Portable Treatment Unit 3 (PTU3)
AREA TFE-E

1. Reporting Period: Business Month **March** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

February	27	28													
March	01	02	03	04	05	06	07	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30** 31

Total monthly time facility operated (hours): **534**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**03-11-2010**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**21.5**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-566	**259,279**	**8.2**
W-1109	**76,302**	**2.3**
W-1903	**0**	**0.0**
W-1909	**0**	**0.0**
W-2305	**76**	**1.7**
Total:	**335,657**	**12.2**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**335,657**

6. Comments:

System secure from 2/27/10 to 3/8/10 for drilling activities nearby. System secure from 3/30/10 through 3/31/10 due to power failure.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **04-06-2010**

Self-Monitoring Report
LLNL GAC Treatment Unit 07 (GTU07)
AREA TFE-HS

1. Reporting Period: Business Month **January** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

December	31														
January	01	02	03	04	05	06	**07**	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	

Total monthly time facility operated (hours): **1**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**01-07-2010**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**12.5**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-2012	**137**	**2.5**
W-2105	**0**	**0.0**
Total:	**137**	**2.5**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**137**

6. Comments:

System secure pending well pump and controller replacement. System was operated on 1/7/10 to collect monthly, quarterly, and annual compliance samples.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **02-01-2010**

Self-Monitoring Report
LLNL GAC Treatment Unit 07 (GTU07)
AREA TFE-HS

1. Reporting Period: Business Month **February** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

January	30	31													
February	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26				

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-2105	**0**	**0.0**
W-2012	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**0**

6. Comments:
System secure pending well pump and controller replacement.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **02-26-2010**

Self-Monitoring Report
LLNL GAC Treatment Unit 07 (GTU07)
AREA TFE-HS

1. Reporting Period: Business Month **March** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

February	27	28														
March	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-2105	**0**	**0.0**
W-2012	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**0**

6. Comments:
System secure pending well pump and controller replacement.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **04-06-2010**

Self-Monitoring Report
LLNL Portable Treatment Unit 9 (PTU9)
AREA TFE-NW

1. Reporting Period: Business Month **January** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

December **31**
January **01** **02** **03** **04** **05** **06** 07 08 09 10 **11** **12** **13** **14** **15**
16 **17** **18** **19** **20** **21** **22** **23** **24** **25** **26** **27** **28** **29**

Total monthly time facility operated (hours): **614**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**01-11-2010**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**21.2**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1211	**624,494**	**17.0**
W-1409	**0**	**0.0**
Total:	**624,494**	**17.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**624,494**

6. Comments:
System secure from 1/6/10 to 1/11/10 for repairs to W-1211 influent pipeline and painting activities at the facility.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **01-29-2010**

Self-Monitoring Report
LLNL Portable Treatment Unit 9 (PTU9)
AREA TFE-NW

1. Reporting Period: Business Month **February** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

January	**30**	**31**													
February	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**				

Total monthly time facility operated (hours): **666**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**02-11-2010**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**21**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1211	**688,513**	**17.4**
W-1409	**0**	**0.0**
Total:	**688,513**	**17.4**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**688,513**

6. Comments:

System secure for 5 hours on 2/19/10 and 7 hours on 2/20/10 for new A/C installation.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **03-01-2010**

Self-Monitoring Report
LLNL Portable Treatment Unit 9 (PTU9)
AREA TFE-NW

1. Reporting Period: Business Month **March** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

February	**27**	**28**														
March	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**	
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**

Total monthly time facility operated (hours): **791**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**03-03-2010**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**21.1**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1211	**831,781**	**16.3**
W-1409	**0**	**0.0**
Total:	**831,781**	**16.3**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**831,781**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **04-06-2010**

Self-Monitoring Report
LLNL Mini Treatment Unit 04 (MTU04)
AREA TFE-SE

1. Reporting Period: Business Month **January** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

December **31**
January **01** 02 03 04 05 06 07 08 09 10 11 12 13 14 15
16 17 18 19 20 21 22 23 24 25 26 27 28 29

Total monthly time facility operated (hours): 711

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**01-11-2010**
Influent pH:	**7.0**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**18.3**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-359	**351,434**	**8.2**
Total:	**351,434**	**8.2**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**351,434**

6. Comments:
Facility was shutdown for network upgrade 1/13/10 @ 13:50, and restarted 15:00 hours.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Ann Thomas Date: **02-01-2010**

Self-Monitoring Report
LLNL Mini Treatment Unit 04 (MTU04)
AREA TFE-SE

1. Reporting Period: Business Month **February** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

January	**30**	**31**													
February	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**				

Total monthly time facility operated (hours): 668

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**02-03-2010**
Influent pH:	**7.0**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**19.9**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-359	**328,577**	**8.2**
Total:	**328,577**	**8.2**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**328,577**

6. Comments:
Facility was shutdown 2/4/10 @ 09:30 hrs. to perform maintenance to air stripper.
Facility was restarted @ 09:47 hrs.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thomas Date: **03-01-2010**

Self-Monitoring Report
LLNL Mini Treatment Unit 04 (MTU04)
AREA TFE-SE

1. Reporting Period: Business Month **March** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

February	**27**	**28**													
March	**01**	**02**	**03**	**04**	05	**06**	**07**	**08**	**09**	**10**	11	12	13	14	**15**
	16	**17**	**18**	19	20	21	22	**23**	**24**	**25**	26	27	28	29	30	31

Total monthly time facility operated (hours): **788**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**02-27-2010**
Influent pH:	**7.0**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**19.7**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-359	**393,838**	**8.2**
Total:	**393,838**	**8.2**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**393,838**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **03-31-2010**

Self-Monitoring Report
LLNL Mini Treatment Unit 03 (MTU03)
AREA TFE-SW

1. Reporting Period: Business Month **January** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

December	**30**	**31**													
January	**01**	**02**	**03**	**04**	05	06	07	**08**	**09**	**10**	**11**	**12**	**13**	**14**	15
	16	17	18	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	

Total monthly time facility operated (hours): **505**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**01-13-2010**
Influent pH:	**7.5**
Effluent pH:	**7.6**
Effluent Temperature (°C):	**19.4**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1520	**0**	**0.0**
W-1518	**53,768**	**1.8**
W-1522	**0**	**0.0**
Total:	**53,768**	**1.8**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**53,768**

6. Comments:

The facility was down for a few days to change out the vapor GAC's and repair a section of the W-1518 wellhead line. The facility was also down for a few days for the frog investigation ditch cleaning project.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **02-01-2010**

Self-Monitoring Report
LLNL Mini Treatment Unit 03 (MTU03)
AREA TFE-SW

1. Reporting Period: Business Month **February** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

January	**30**	**31**													
February	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**				

Total monthly time facility operated (hours): **664**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**02-03-2010**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**20.2**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1518	**70,929**	**1.8**
W-1522	**0**	**0.0**
W-1520	**0**	**0.0**
Total:	**70,929**	**1.8**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**70,929**

6. Comments:
NA

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Billy O. Kuhl Jr. Date: **03-01-2010**

Self-Monitoring Report
LLNL Mini Treatment Unit 03 (MTU03)
AREA TFE-SW

1. Reporting Period: Business Month **March** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

February	**27**	**28**														
March	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**	
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**

Total monthly time facility operated (hours): **790**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**03-03-2010**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**16.3**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1518	**85,999**	**1.8**
W-1522	**0**	**0.0**
W-1520	**0**	**0.0**
Total:	**85,999**	**1.8**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**85,999**

6. Comments:
NA

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Billy D. Kirkpatrick Date: **04-01-2010**

Self-Monitoring Report
LLNL Mini Treatment Unit 05 (MTU05)
AREA TFE-W

1. Reporting Period: Business Month **January** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

December **30** **31**
January **01** **02** **03** **04** **05** **06** **07** **08** **09** **10** **11** **12** **13** **14** **15**
16 **17** **18** **19** **20** **21** **22** **23** **24** **25** **26** **27** **28** **29**

Total monthly time facility operated (hours): **743**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**01-14-2010**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**19.3**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-305	**393,106**	**8.7**
W-292	**267,636**	**6.0**
Total:	**660,742**	**14.7**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**660,742**

6. Comments:
NA

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Billy O. Kidd Jr. Date: **02-01-2010**

Self-Monitoring Report
LLNL Mini Treatment Unit 05 (MTU05)
AREA TFE-W

1. Reporting Period: Business Month **February** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

January	**30**	**31**													
February	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**				

Total monthly time facility operated (hours): **668**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**02-03-2010**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**20.4**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-305	**348,118**	**8.6**
W-292	**239,794**	**5.9**
Total:	**587,912**	**14.5**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**587,912**

6. Comments:
NA

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Billy D. Kirkland Jr. Date: **03-01-2010**

Self-Monitoring Report
LLNL Mini Treatment Unit 05 (MTU05)
AREA TFE-W

1. Reporting Period: Business Month **March** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

February	**27**	**28**													
March	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**

Total monthly time facility operated (hours): **790**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**03-03-2010**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**17.2**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-305	**411,965**	**8.7**
W-292	**285,295**	**5.9**
Total:	**697,260**	**14.6**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**697,260**

6. Comments:
NA

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Billy D. Kirkland Jr. Date: **04-01-2010**

Self-Monitoring Report
LLNL Vapor Extraction System 16 (VES16)
AREA VTFE-ELM

1. Reporting Period: Business Month January Year 2010

2. Dates (in **bold** and underline) treatment facility operated

December 31
January 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
16 17 18 19 20 21 22 23 24 25 26 27 28 29

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-1909	**0**	**0.0**	**0**	**0**	**0**
W-1903	**0**	**0.0**	**0**	**0**	**0**
W-2305	**0**	**0.0**	**0**	**0**	**0**
W-543-001	**0**	**0.0**	**0**	**0**	**0**
W-543-003	**697,791**	**20.5**	**-1.05**	**54**	**718**
W-543-1908	**0**	**0.0**	**0**	**0**	**0**
Total:	**697,791**	**20.5**			

4. Comments:

As instructed by Zaf Demir, W-543-003 flow rate was increased to 20 SCFM 1/13/10. VES 16 end month hours of operation adjusted due to erroneous reporting by OPTO system. Facility operations were continuous during reporting month, therefore month end hours amended to reflect actual time facility operated from 12/30/09 to 1/29/10.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thomas Date: **02-09-2010**

Self-Monitoring Report
LLNL Vapor Extraction System 16 (VES16)
AREA VTFE-ELM

1. Reporting Period: Business Month **February** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

January	**30**	**31**												
February	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26				

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-1909	**0**	**0.0**	**0**	**0**	**0**
W-1903	**0**	**0.0**	**0**	**0**	**0**
W-2305	**0**	**0.0**	**0**	**0**	**0**
W-543-1908	**0**	**0.0**	**0**	**0**	**0**
W-543-003	**816,864**	**20.2**	**-1.76**	**45**	**672**
W-543-001	**0**	**0.0**	**0**	**0**	**0**
Total:	**816,864**	**20.2**			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thoma Date: **03-01-2010**

Self-Monitoring Report
LLNL Vapor Extraction System 16 (VES16)
AREA VTFE-ELM

1. Reporting Period: Business Month **March** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

February	**27**	28													
March	01	02	03	04	05	**06**	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	**21**	22	23	24	25	26	27	28	29	30	31

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-1909	**0**	**0.0**	**0**	**0**	**0**
W-1903	**0**	**0.0**	**0**	**0**	**0**
W-2305	**0**	**0.0**	**0**	**0**	**0**
W-543-1908	**0**	**0.0**	**0**	**0**	**0**
W-543-003	**984,402**	**20.1**	**-1.77**	**54**	**791**
W-543-001	**0**	**0.0**	**0**	**0**	**0**
Total:	**984,402**	**20.1**			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thomas Date: **03-31-2010**

Self-Monitoring Report
LLNL Vapor Extraction System 12 (VES12)
AREA VTFE-HS

1. Reporting Period: Business Month **January** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

December **31**
January **01** **02** **03** **04** **05** **06** **07** **08** **09** **10** **11** **12** **13** 14 **15**
16 **17** **18** **19** **20** **21** **22** **23** **24** **25** **26** **27** **28** **29**

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-ETS-2010B	**0**	**0.0**	**0**	**0**	**0**
W-ETS-2010A	**398,298**	**10.3**	**-.44**	**50**	**645**
W-ETS-2009	**0**	**0.0**	**0**	**0**	**0**
W-ETS-2008A	**404,445**	**10.2**	**-1.7**	**50**	**645**
W-ETS-2008B	**317,044**	**8.7**	**-9.5**	**50**	**645**
W-2105	**0**	**0.0**	**0**	**0**	**0**
Total:	**1,119,787**	**29.3**			

4. Comments:

Facility was shutdown 1/5/10 at 13:35 hours to perform voltage and current measurements on liquid ring pump motor. Facility was restarted at 16:15 hours. Facility was shutdown 1/13/10 at 15:20 hrs. due to OPTO system communication failure. Facility was restarted 1/15/10 at 14:10 hrs.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thomas Date: **02-01-2010**

Self-Monitoring Report
LLNL Vapor Extraction System 12 (VES12)
AREA VTFE-HS

1. Reporting Period: Business Month **February** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

January	**30**	**31**												
February	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**				

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-ETS-2010B	**0**	**0.0**	**0**	**0**	**0**
W-ETS-2010A	**417,372**	**10.3**	**-.58**	**50**	**675**
W-ETS-2009	**0**	**0.0**	**0**	**0**	**0**
W-ETS-2008A	**418,155**	**10.5**	**-2.52**	**50**	**675**
W-ETS-2008B	**325,771**	**8.2**	**-10.08**	**50**	**675**
W-2105	**0**	**0.0**	**0**	**0**	**0**
Total:	**1,161,298**	**29.0**			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **03-01-2010**

Self-Monitoring Report
LLNL Vapor Extraction System 12 (VES12)
AREA VTFE-HS

1. Reporting Period: Business Month **March** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

February	**27**	**28**													
March	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-ETS-2010B	**0**	**0.0**	**0**	**0**	**0**
W-ETS-2010A	**493,784**	**10.2**	**-.48**	**49**	**798**
W-ETS-2009	**0**	**0.0**	**0**	**0**	**0**
W-ETS-2008A	**493,121**	**10.1**	**-2.66**	**49**	**798**
W-ETS-2008B	**385,315**	**8.2**	**-10.73**	**49**	**798**
W-2105	**0**	**0.0**	**0**	**0**	**0**
Total:	**1,372,220**	**28.5**			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thomas Date: **04-15-2010**

Self-Monitoring Report
LLNL GAC Treatment Unit 01 (GTU01)
AREA TFG-1

1. Reporting Period: Business Month **January** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

December **31**
January **01 02 03 04 05 06 07 08 09 10 11 12 13 14 15**
16 17 18 19 20 21 22 23 24 25 26 27 28 29

Total monthly time facility operated (hours): **723**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**01-14-2010**
Influent pH:	**7.0**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**18.7**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1111	**381,377**	**8.8**
Total:	**381,377**	**8.8**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Seco	**TFG-ASW**	**381,377**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **01-30-2010**

Land Observation Report date:
TFG-ASW - Arroyo Seco

1. Reporting Period: Business Month **January** Year **2010**

2. Date compliance sampling performed **01-14-2010**

3. Weather Conditions:

Average air tempertaure (°C):	**9.3**
6-day total precipitation (in):	**.49**
Average wind speed/direction (mph):	**3/ SSE**

4. Receiving Data:

Sample Location	pH	Temperature (C)
Receiving Water	**7.0**	**19.3**

5. Land Observations, as "Yes" or "No", for reporting month:

Visual Observations	Effluent	Receiving Water
Floating and Suspended Materials of Waste Origin	**No**	**No**
Odor	**No**	**No**
Discoloration and Turbidity	Not Required	**No**
Evidence of Beneficial Water Use	Not Required	**N/A**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **01-30-2010**

Self-Monitoring Report
LLNL GAC Treatment Unit 01 (GTU01)
AREA TFG-1

1. Reporting Period: Business Month **February** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

January	**30**	**31**													
February	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**				

Total monthly time facility operated (hours): **665**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**02-16-2010**
Influent pH:	**7.0**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**19.2**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1111	**350,095**	**8.7**
Total:	**350,095**	**8.7**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Seco	**TFG-ASW**	**350,095**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **02-26-2010**

Land Observation Report date:
TFG-ASW - Arroyo Seco

1. Reporting Period: Business Month **February** Year **2010**

2. Date compliance sampling performed **02-16-2010**

3. Weather Conditions:

Average air tempertaure (°C):	**11.4**
6-day total precipitation (in):	**0**
Average wind speed/direction (mph):	**2/ SE**

4. Receiving Data:

Sample Location	pH	Temperature (C)
Receiving Water	**N/M**	**N/M**

5. Land Observations, as "Yes" or "No", for reporting month:

Visual Observations	Effluent	Receiving Water
Floating and Suspended Materials of Waste Origin	**No**	**No**
Odor	**No**	**No**
Discoloration and Turbidity	Not Required	**No**
Evidence of Beneficial Water Use	Not Required	**N/A**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **02-26-2010**

Self-Monitoring Report
LLNL GAC Treatment Unit 01 (GTU01)
AREA TFG-1

1. Reporting Period: Business Month **March** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

February	**27**	**28**														
March	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**	
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**

Total monthly time facility operated (hours): **791**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**02-27-2010**
Influent pH:	**7.0**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**19.9**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1111	**417,987**	**8.7**
Total:	**417,987**	**8.7**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Seco	**TFG-ASW**	**417,987**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **04-06-2010**

Land Observation Report date:
TFG-ASW - Arroyo Seco

1. Reporting Period: Business Month **March** Year **2010**

2. Date compliance sampling performed **03-04-2010**

3. Weather Conditions:

Average air tempertaure (°C):	**10**
6-day total precipitation (in):	**.67**
Average wind speed/direction (mph):	**4/ S**

4. Receiving Data:

Sample Location	pH	Temperature (C)
Receiving Water	**N/M**	**N/M**

5. Land Observations, as "Yes" or "No", for reporting month:

Visual Observations	Effluent	Receiving Water
Floating and Suspended Materials of Waste Origin	**No**	**No**
Odor	**No**	**No**
Discoloration and Turbidity	Not Required	**No**
Evidence of Beneficial Water Use	Not Required	**N/A**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **04-06-2010**

Self-Monitoring Report
LLNL Mini Treatment Unit 02 (MTU02)
AREA TFG-N

1. Reporting Period: Business Month **January** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

December **31**
January **01 02 03 04 05 06 07 08 09 10 11 12 13 14 15**
16 17 18 19 20 21 22 23 24 25 26 27 28 29

Total monthly time facility operated (hours): **732**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**01-13-2010**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**21.5**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1807	**191,983**	**4.4**
W-1806	**113,406**	**2.5**
Total:	**305,389**	**6.9**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**305,389**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **01-30-2010**

Self-Monitoring Report
LLNL Mini Treatment Unit 02 (MTU02)
AREA TFG-N

1. Reporting Period: Business Month **February** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

January	**30**	**31**													
February	**01**	**02**	**03**	**04**	**05**	06	07	08	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**				

Total monthly time facility operated (hours): **566**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**02-16-2010**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**22.2**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1807	**147,293**	**4.4**
W-1806	**87,129**	**2.5**
Total:	**234,422**	**6.9**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**234,422**

6. Comments:
System was down from 2/5/10 to 2/9/10 due to flow meter and electronic repairs.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **02-26-2010**

Self-Monitoring Report
LLNL Mini Treatment Unit 02 (MTU02)
AREA TFG-N

1. Reporting Period: Business Month **March** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

February	**27**	**28**													
March	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**

Total monthly time facility operated (hours): **802**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**03-04-2010**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**22.1**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1807	**212,127**	**4.5**
W-1806	**125,003**	**2.6**
Total:	**337,130**	**7.1**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**337,130**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **04-06-2010**

Self-Monitoring Report
LLNL Portable Treatment Unit 5 (PTU5)
AREA TF406

1. Reporting Period: Business Month **January** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

December	**31**													
January	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	14	**15**
	16	**17**	**18**	**19**	20	21	22	23	24	25	26	27	28	**29**	

Total monthly time facility operated (hours): **445**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**01-12-2010**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**24**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1309	**374**	**5.4**
W-1310	**410,307**	**15.3**
GSW-445	**0**	**0.0**
Total:	**410,681**	**20.7**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**410,681**

6. Comments:

System down from 1/13/10 to 1/15/10 for electronic repair. System down from 1/19/10 to 1/29/10 due to drilling activities nearby.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **01-29-2010**

Self-Monitoring Report
LLNL Portable Treatment Unit 5 (PTU5)
AREA TF406

1. Reporting Period: Business Month **February** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

January	**30**	**31**												
February	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	**26**				

Total monthly time facility operated (hours): **442**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**02-11-2010**
Influent pH:	**7.0**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**22.3**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1309	**0**	**0.0**
W-1310	**399,652**	**15.5**
GSW-445	**0**	**0.0**
Total:	**399,652**	**15.5**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**399,652**

6. Comments:

System down from 2/16/10 to 2/26/10 due to drilling activities nearby.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **02-26-2010**

Self-Monitoring Report
LLNL Portable Treatment Unit 5 (PTU5)
AREA TF406

1. Reporting Period: Business Month **March** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

February	**27**	**28**													
March	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**

Total monthly time facility operated (hours): **788**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**03-03-2010**
Influent pH:	**7.0**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**22.5**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1309	**0**	**0.0**
W-1310	**744,863**	**15.7**
GSW-445	**0**	**0.0**
Total:	**744,863**	**15.7**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**744,863**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **04-06-2010**

Self-Monitoring Report
LLNL GAC Treatment Unit 03 (GTU03)
AREA TF406-NW

1. Reporting Period: Business Month **January** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

December **31**
January **01 02 03 04 05 06 07 08 09 10 11 12 13 14 15**
16 17 18 19 20 21 22 23 24 25 26 27 28 29

Total monthly time facility operated (hours): **720**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**01-12-2010**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**22**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1801	**208,715**	**4.8**
Total:	**208,715**	**4.8**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**208,715**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **02-01-2010**

Self-Monitoring Report
LLNL GAC Treatment Unit 03 (GTU03)
AREA TF406-NW

1. Reporting Period: Business Month **February** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

January	**30**	**31**												
February	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**				

Total monthly time facility operated (hours): **667**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**02-11-2010**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**21.6**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1801	**186,206**	**4.6**
Total:	**186,206**	**4.6**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**186,206**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **02-26-2010**

Self-Monitoring Report
LLNL GAC Treatment Unit 03 (GTU03)
AREA TF406-NW

1. Reporting Period: Business Month **March** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

February	**27**	**28**													
March	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	14	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	23	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**

Total monthly time facility operated (hours): **694**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**03-08-2010**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**21.4**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1801	**197,908**	**4.4**
Total:	**197,908**	**4.4**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**197,908**

6. Comments:

System down from 3/13/10 to 3/15/10 due to "flow meter failure" alarm. System down from 3/22/10 to 3/24/10 due to power failure. 3/18/10 394 Gal. of water from VTF518PZ processed through facility.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **04-27-2010**

Self-Monitoring Report
LLNL Solar Treatment Unit 09 (STU09)
AREA TF518-N

1. Reporting Period: Business Month **January** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

December	30	31													
January	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28		

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1410	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**0**

6. Comments:

This treatment facility was shut down on 2-20-08 due to elevated tritium activities in the facility influent. The facility will be restarted once a solution for mixed waste generation is implemented.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Kawaguchi Date: **01-28-2010**

Self-Monitoring Report
LLNL Solar Treatment Unit 09 (STU09)
AREA TF518-N

1. Reporting Period: Business Month **February** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

January	29	30	31												
February	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26				

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1410	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**0**

6. Comments:
This treatment facility was shut down on 2-20-08 due to elevated tritium activities in the facility influent. The facility will be restarted once a solution for mixed waste generation is implemented.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Kawaguchi Date: **02-28-2010**

Self-Monitoring Report
LLNL Solar Treatment Unit 09 (STU09)
AREA TF518-N

1. Reporting Period: Business Month **March** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

February	27	28													
March	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1410	**0**	
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**0**

6. Comments:

This treatment facility was shut down on 2-20-08 due to elevated tritium activities in the facility influent. The facility will be restarted once a solution for mixed waste generation is implemented.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Carrazco Date: **04-03-2010**

Self-Monitoring Report
LLNL Treatment Facility 518-HDTANK (TF518-HDTANK)
AREA TF518-PZ

1. Reporting Period: Business Month **January** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

December **31**
January **01 02 03 04 05 06 07 08 09 10 11 12 13 14 15**
16 17 18 19 20 21 22 23 24 25 26 27 28 29

Total monthly time facility operated (hours): 721

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

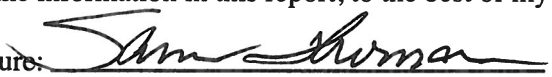
Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1615	**197**	**0.0**
W-518-1913	**0**	**0.0**
W-518-1915	**64**	**0.0**
W-518-1914	**0**	**0.0**
SVB-518-201	**0**	**0.0**
SVB-518-204	**0**	**0.0**
Total:	**261**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**260.9**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **02-01-2010**

Self-Monitoring Report
LLNL Treatment Facility 518-HDTANK (TF518-HDTANK)
AREA TF518-PZ

1. Reporting Period: Business Month **February** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

January	**30**	**31**												
February	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**				

Total monthly time facility operated (hours): 670

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1615	**109**	**0.0**
W-518-1913	**0**	**0.0**
W-518-1914	**0**	**0.0**
W-518-1915	**95**	**0.0**
SVB-518-201	**0**	**0.0**
SVB-518-204	**0**	**0.0**
Total:	**204**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**204.2**

6. Comments:
Compliance sampling is not required because water is treated at TF406 Northwest (GTU03).

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thomas Date: **03-01-2010**

Self-Monitoring Report
LLNL Treatment Facility 518-HDTANK (TF518-HDTANK)
AREA TF518-PZ

1. Reporting Period: Business Month **March** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

February	**27**	**28**													
March	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**

Total monthly time facility operated (hours): **790**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1615	**199**	**0.0**
W-518-1913	**0**	**0.0**
W-518-1914	**0**	**0.0**
W-518-1915	**144**	**0.0**
SVB-518-201	**0**	**0.0**
SVB-518-204	**0**	**0.0**
Total:	**343**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**343.1**

6. Comments:
Transferred 396 gallons of groundwater for treatment at TF406-NW 3/18/10.
Compliance sampling is not required because water is treated at TF406 Northwest (GTU03).

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thomas Date: **03-31-2010**

Self-Monitoring Report
LLNL Catalytic Reductive Dehalogenation 1 (CRD1)
AREA TF5475-1

1. Reporting Period: Business Month **January** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

December	31														
January	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1302-2	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
CRD-1 injection	**W-1302-1**	**0**

6. Comments:
This treatment facility was shut down on 7/27/07. The facility will be restarted once a solution for mixed waste generation is implemented.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **02-01-2010**

Self-Monitoring Report
LLNL Catalytic Reductive Dehalogenation 1 (CRD1)
AREA TF5475-1

1. Reporting Period: Business Month **February** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

January	30	31													
February	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26				

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1302-2	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
CRD-1 injection	**W-1302-1**	**0**

6. Comments:
This treatment facility was shut down on 7/27/07. The facility will be restarted once a solution for mixed waste generation is implemented.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **02-26-2010**

Self-Monitoring Report
LLNL Catalytic Reductive Dehalogenation 1 (CRD1)
AREA TF5475-1

1. Reporting Period: Business Month **March** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

February	27	28														
March	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1302-2	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
CRD-1 injection	**W-1302-1**	**0**

6. Comments:

This treatment facility was shut down on 7/27/07. The facility will be restarted once a solution for mixed waste generation is implemented.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **04-06-2010**

Self-Monitoring Report
LLNL GAC Treatment Unit 09 (GTU09)
AREA TF5475-2

1. Reporting Period: Business Month **January** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

December **31**
January **01 02 03 04 05 06 07 08 09 10 11 12 13 14 15**
16 17 18 19 20 21 22 23 24 25 26 27 28 29

Total monthly time facility operated (hours): **720**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**01-06-2010**
Influent pH:	**6.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**20.9**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1108	**193,590**	**4.5**
W-1415	**294**	**0.8**
Total:	**193,884**	**5.3**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**193,884**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **01-30-2010**

Self-Monitoring Report
LLNL GAC Treatment Unit 09 (GTU09)
AREA TF5475-2

1. Reporting Period: Business Month **February** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

January	30	31													
February	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**				

Total monthly time facility operated (hours): **624**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**02-02-2010**
Influent pH:	**6.5**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**16**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1108	**168,480**	**4.5**
W-1415	**0**	**0.0**
Total:	**168,480**	**4.5**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**168,480**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **04-05-2010**

Self-Monitoring Report
LLNL GAC Treatment Unit 09 (GTU09)
AREA TF5475-2

1. Reporting Period: Business Month **March** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

February	**27**	**28**													
March	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

Total monthly time facility operated (hours): **412**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**03-03-2010**
Influent pH:	**7.0**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**16.5**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1108	**109,445**	**4.5**
W-1415	**0**	**0.0**
Total:	**109,445**	**4.5**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**109,445**

6. Comments:

Facility was secured on 3-15-10 due to construction in the area limiting facility access.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **04-05-2010**

Self-Monitoring Report
LLNL Catalytic Reductive Dehalogenation 2 (CRD2)
AREA TF5475-3

1. Reporting Period: Business Month **January** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

December	31														
January	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1608	**0**	**0.0**
W-1605	**0**	**0.0**
W-1604	**0**	**0.0**
W-1609	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
CRD-2 injection	**W-1610**	**0**

6. Comments:
This treatment facility was shut down on 8/31/07. The facility will be restarted once a solution for mixed waste generation is implemented.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **02-01-2010**

Self-Monitoring Report
LLNL Catalytic Reductive Dehalogenation 2 (CRD2)
AREA TF5475-3

1. Reporting Period: Business Month **February** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

January	30	31													
February	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26				

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1605	**0**	**0.0**
W-1604	**0**	**0.0**
W-1609	**0**	**0.0**
W-1608	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
CRD-2 injection	**W-1610**	**0**

6. Comments:
This treatment facility was shut down on 8/31/07. The facility will be restarted once a solution for mixed waste generation is implemented.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **02-26-2010**

Self-Monitoring Report
LLNL Catalytic Reductive Dehalogenation 2 (CRD2)
AREA TF5475-3

1. Reporting Period: Business Month **March** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

February	27	28														
March	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1605	**0**	**0.0**
W-1604	**0**	**0.0**
W-1609	**0**	**0.0**
W-1608	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
CRD-2 injection	**W-1610**	**0**

6. Comments:

This treatment facility was shut down on 8/31/07. The facility will be restarted once a solution for mixed waste generation is implemented.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **04-06-2010**

Self-Monitoring Report
LLNL Vapor Extraction System 08 (VES08)
AREA VTF406-HS

1. Reporting Period: Business Month **January** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

December **31**
January **01** 02 03 04 05 06 07 08 09 10 11 12 13 14 15
16 **17** **18** **19** **20** **21** **22** **23** 24 25 26 27 28 29

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-217	**873,166**	**19.9**	**-2.5**	**62.6**	**724**
W-514-2007B	**402,666**	**10.2**	**-2.93**	**62.6**	**724**
W-514-2007A	**208,653**	**5.1**	**-4.92**	**62.6**	**724**
Total:	**1,484,485**	**35.1**			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thomas Date: **02-01-2010**

Self-Monitoring Report
LLNL Vapor Extraction System 08 (VES08)
AREA VTF406-HS

1. Reporting Period: Business Month **February** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

January	**30**	**31**													
February	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26				

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-217	**793,019**	**19.4**	**-2.28**	**63.5**	**677**
W-514-2007A	**182,896**	**4.4**	**-4.77**	**63.5**	**677**
W-514-2007B	**359,992**	**9.7**	**-2.62**	**63.5**	**677**
Total:	**1,335,907**	**33.4**			

4. Comments:

Quarterly vapor samples collected from SVE wells 2/16/10 and submitted to Caltest Labs.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thomas Date: **03-01-2010**

Self-Monitoring Report
LLNL Vapor Extraction System 08 (VES08)
AREA VTF406-HS

1. Reporting Period: Business Month **March** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

February	**27**	28													
March	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-217	**832,757**	**19.6**	**-2.43**	**62.6**	**731**
W-514-2007A	**173,772**	**2.4**	**-4.74**	**62.6**	**731**
W-514-2007B	**431,269**	**10.5**	**-2.76**	**62.6**	**731**
Total:	**1,437,798**	**32.5**			

4. Comments:

Found facility shutdown due to low vapor flow interlock. Shutdown occurred 2/27/10 @ 0935 hrs. Facility was restarted 3/1/10 @ 09:50 hrs. Facility shutdown due to scheduled power outage 3/14/10. Facility was restarted 3/15/10 @ 08:30 hrs.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thomas Date: **04-20-2010**

Self-Monitoring Report
LLNL Vapor Extraction System 14 (VES14)
AREA VTF511

1. Reporting Period: Business Month **January** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

December	31														
January	01	02	03	04	05	06	07	08	09	10	11	**12**	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-274	**0**	**0.0**	**0**	**0**	**0**
W-2206	**0**	**0.0**	**0**	**0**	**0**
W-2207A	**0**	**0.0**	**0**	**0**	**0**
W-2204	**0**	**0.0**	**0**	**0**	**0**
W-2208B	**249**	**0.0**	**0**	**0**	**1**
W-1517	**0**	**0.0**	**0**	**0**	**0**
W-2207B	**184**	**0.0**	**0**	**0**	**1**
W-2208A	**0**	**0.0**	**0**	**0**	**0**
W-2205	**0**	**0.0**	**0**	**0**	**0**
Total:	**433**	**0.0**			

4. Comments:

1/29/09-Removed failed Airtech vacuum pump and installed reconditioned McKenna liquid ring vacuum pump. Facility was started 1/12/10 @ 11:35 and was found shutdown at 12:30 due to vacuum pump motor overload.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thomas Date: **02-01-2010**

Self-Monitoring Report
LLNL Vapor Extraction System 05 (VES05)
AREA VTF511

1. Reporting Period: Business Month **January** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

January	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	**27**	**28**	**29**	

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-2204	**0**	**0.0**	**0**	**0**	**0**
W-2205	**0**	**0.0**	**0**	**0**	**0**
W-2206	**0**	**0.0**	**0**	**0**	**0**
W-2207A	**0**	**0.0**	**0**	**0**	**0**
W-2207B	**12,782**	**3.8**	**-6.6**	**60**	**48**
W-2208A	**0**	**0.0**	**0**	**0**	**0**
W-2208B	**14,945**	**3.9**	**-2.8**	**60**	**48**
W-1517	**0**	**0.0**	**0**	**0**	**0**
W-274	**0**	**0.0**	**0**	**0**	**0**
Total:	27,727	7.7			

4. Comments:
VES 05 SVE system activated 1/27/10 at VTF-511.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **02-03-2010**

Self-Monitoring Report
LLNL Vapor Extraction System 05 (VES05)
AREA VTF511

1. Reporting Period: Business Month **February** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

January	**30**	**31**												
February	**01**	**02**	**03**	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	**18**	19	20	21	22	23	24	25	26				

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-274	**0**	**0.0**	**0**	**0**	**0**
W-2208A	**0**	**0.0**	**0**	**0**	**0**
W-2207A	**0**	**0.0**	**0**	**0**	**0**
W-2207B	**120,923**	**7.0**	**-5.5**	**62**	**271**
W-1517	**0**	**0.0**	**0**	**0**	**0**
W-2208B	**103,895**	**6.1**	**-3.5**	**62**	**271**
W-2204	**0**	**0.0**	**0**	**0**	**0**
W-2206	**0**	**0.0**	**0**	**0**	**0**
W-2205	**0**	**0.0**	**0**	**0**	**0**
Total:	**224,818**	**13.1**			

4. Comments:

VES05 was shutdown 2/9/10 to increase blower output frequency and evaluate system performance. Unit vacuum motor was replaced 2/10, system restarted and was shutdown to troubleshoot Toshiba Inverter. VES05 was restarted 2/11/10 following adjustment of Yokogawa inlet pressure controller @ 0900 hrs. Facility was discovered shutdown @ 09:45 hrs on high discharge temp alarm. Facility was restarted @ 13:35, and was shutdown for carbon filter replacement. Facility was restarted 2/18/10 @ 13:18 hrs. test extraction well instrumentation. Facility was shutdown @ 15:00 hours.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **03-01-2010**

Self-Monitoring Report
LLNL Vapor Extraction System 05 (VES05)
AREA VTF511

1. Reporting Period: Business Month **March** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

February	27	28													
March	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	**17**	18	**19**	20	21	22	23	24	**25**	**26**	27	28	29	30	31

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-274	**0**	**0.0**	**0**	**0**	**0**
W-2208A	**0**	**0.0**	**0**	**0**	**0**
W-2207A	**0**	**0.0**	**0**	**0**	**0**
W-2207B	**3,234**	**4.6**	**-6**	**76**	**10**
W-2206	**0**	**0.0**	**0**	**0**	**0**
W-2208B	**4,483**	**4.5**	**-2.5**	**76**	**10**
W-2204	**0**	**0.0**	**0**	**0**	**0**
W-1517	**0**	**0.0**	**0**	**0**	**0**
W-2205	**0**	**0.0**	**0**	**0**	**0**
Total:	**7,717**	**9.1**			

4. Comments:

Facility operated on dates indicated above to evaluate performance of VES05 variable frequency drive and test/verify accuracy of extraction well differential pressure transducers.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **03-31-2010**

Self-Monitoring Report
LLNL Vapor Extraction System 19 (VES19)
AREA VTF518-PZ

1. Reporting Period: Business Month **January Week: 1** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

December **31**
January **01 02 03 04 05 06 07**

3. Wellfield Data:

Source	Weekly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-1615	**46,128**	**4.0**	**-12**	**55**	**192**
W-518-1913	**0**	**0.0**	**0**	**0**	**0**
W-518-1915	**5,766**	**0.5**	**-23.8**	**55**	**192**
W-518-1914	**0**	**0.0**	**0**	**0**	**0**
SVB-518-201	**0**	**0.0**	**0**	**0**	**0**
SVB-518-204	**0**	**0.0**	**0**	**0**	**0**
Total:	**51,894**	**4.5**			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thomas Date: **01-19-2010**

Self-Monitoring Report
LLNL Vapor Extraction System 19 (VES19)
AREA VTF518-PZ

1. Reporting Period: Business Month **January Week: 2** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

January **08 09 10 11 12 13 14 15**

3. Wellfield Data:

Source	Weekly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-1615	**44,951**	**3.9**	**-12**	**50**	**192**
W-518-1913	**0**	**0.0**	**0**	**0**	**0**
W-518-1915	**5,763**	**0.5**	**-23.5**	**50**	**192**
W-518-1914	**0**	**0.0**	**0**	**0**	**0**
SVB-518-201	**0**	**0.0**	**0**	**0**	**0**
SVB-518-204	**0**	**0.0**	**0**	**0**	**0**
Total:	**50,714**	**4.4**			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thomas Date: **01-19-2010**

Self-Monitoring Report
LLNL Vapor Extraction System 19 (VES19)
AREA VTF518-PZ

1. Reporting Period: Business Month **January Week: 3** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

January **16 17 18 19 20 21 22**

3. Wellfield Data:

Source	Weekly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-1615	**36,288**	**3.6**	**-12.6**	**50**	**168**
W-518-1913	**0**	**0.0**	**0**	**0**	**0**
W-518-1915	**4,032**	**0.4**	**-23.4**	**50**	**168**
W-518-1914	**0**	**0.0**	**0**	**0**	**0**
SVB-518-201	**0**	**0.0**	**0**	**0**	**0**
SVB-518-204	**0**	**0.0**	**0**	**0**	**0**
Total:	**40,320**	**4.0**			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **02-01-2010**

Self-Monitoring Report
LLNL Vapor Extraction System 19 (VES19)
AREA VTF518-PZ

1. Reporting Period: Business Month **January Week: 4** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

January **23 24 25 26 27 28 29**

3. Wellfield Data:

Source	Weekly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-1615	**39,616**	**3.9**	**-11.5**	**56**	**169**
W-518-1913	**0**	**0.0**	**0**	**0**	**0**
W-518-1915	**5,079**	**0.5**	**-23.8**	**56**	**169**
W-518-1914	**0**	**0.0**	**0**	**0**	**0**
SVB-518-201	**0**	**0.0**	**0**	**0**	**0**
SVB-518-204	**0**	**0.0**	**0**	**0**	**0**
Total:	**44,695**	**4.4**			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thomas Date: **02-01-2010**

Self-Monitoring Report
LLNL Vapor Extraction System 19 (VES19)
AREA VTF518-PZ

1. Reporting Period: Business Month **February Week: 1** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

January **30** **31**
February **01** **02** **03** 04 05

3. Wellfield Data:

Source	Weekly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-1615	**38,610**	**3.9**	**-12**	**45**	**165**
W-518-1913	**0**	**0.0**	**0**	**0**	**0**
W-518-1914	**0**	**0.0**	**0**	**0**	**0**
W-518-1915	**3,960**	**0.4**	**-23**	**45**	**165**
SVB-518-201	**0**	**0.0**	**0**	**0**	**0**
SVB-518-204	**0**	**0.0**	**0**	**0**	**0**
Total:	**42,570**	**4.3**			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thomas Date: **02-23-2010**

Self-Monitoring Report
LLNL Vapor Extraction System 19 (VES19)
AREA VTF518-PZ

1. Reporting Period: Business Month **February Week: 2** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

February **06 07 08 09 10 11 12**

3. Wellfield Data:

Source	Weekly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-1615	**37,829**	**3.7**	**-13**	**62**	**170**
W-518-1913	**0**	**0.0**	**0**	**0**	**0**
W-518-1914	**0**	**0.0**	**0**	**0**	**0**
W-518-1915	**5,112**	**0.5**	**-23.8**	**62**	**170**
SVB-518-201	**0**	**0.0**	**0**	**0**	**0**
SVB-518-204	**0**	**0.0**	**0**	**0**	**0**
Total:	**42,941**	**4.2**			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thomas Date: **02-23-2010**

Self-Monitoring Report
LLNL Vapor Extraction System 19 (VES19)
AREA VTF518-PZ

1. Reporting Period: Business Month **February Week: 3** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

February **13 14 15 16 17 18 19**

3. Wellfield Data:

Source	Weekly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-1615	**35,878**	**3.6**	**-15.3**	**49**	**166**
W-518-1913	**0**	**0.0**	**0**	**0**	**0**
W-518-1914	**0**	**0.0**	**0**	**0**	**0**
W-518-1915	**3,986**	**0.4**	**-23.4**	**49**	**166**
SVB-518-201	**0**	**0.0**	**0**	**0**	**0**
SVB-518-204	**0**	**0.0**	**0**	**0**	**0**
Total:	**39,864**	**4.0**			

4. Comments:

Collected groundwater samples from W-518-1914 and W-518-1913 2/16/10.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thomas Date: **02-23-2010**

Self-Monitoring Report
LLNL Vapor Extraction System 19 (VES19)
AREA VTF518-PZ

1. Reporting Period: Business Month **February Week: 4** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

February **20 21 22 23 24 25 26**

3. Wellfield Data:

Source	Weekly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-1615	**37,407**	**3.7**	**-14.8**	**58**	**168**
W-518-1913	**0**	**0.0**	**0**	**0**	**168**
W-518-1914	**0**	**0.0**	**0**	**0**	**168**
W-518-1915	**5,055**	**0.5**	**-23**	**58**	**168**
SVB-518-201	**0**	**0.0**	**0**	**0**	**168**
SVB-518-204	**0**	**0.0**	**0**	**0**	**168**
Total:	**42,462**	**4.2**			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thomas Date: **03-01-2010**

Self-Monitoring Report
LLNL Vapor Extraction System 19 (VES19)
AREA VTF518-PZ

1. Reporting Period: Business Month **March Week: 1** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

February **27** **28**
March **01** **02** **03** 04 05

3. Wellfield Data:

Source	Weekly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-1615	**40,440**	**4.0**	**-14.3**	**50**	**168**
W-518-1913	**0**	**0.0**	**0**	**0**	**0**
W-518-1914	**0**	**0.0**	**0**	**0**	**0**
W-518-1915	**4,044**	**0.4**	**-23.5**	**50**	**168**
SVB-518-201	**0**	**0.0**	**0**	**0**	**0**
SVB-518-204	**0**	**0.0**	**0**	**0**	**0**
Total:	**44,484**	**4.4**			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thomas Date: **03-08-2010**

Self-Monitoring Report
LLNL Vapor Extraction System 19 (VES19)
AREA VTF518-PZ

1. Reporting Period: Business Month **March Week: 2** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

March **06 07 08 09 10 11 12**

3. Wellfield Data:

Source	Weekly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-1615	**38,258**	**3.8**	**-14**	**52**	**168**
W-518-1913	**0**	**0.0**	**0**	**0**	**0**
W-518-1914	**0**	**0.0**	**0**	**0**	**0**
W-518-1915	**4,027**	**0.4**	**-23.5**	**52**	**168**
SVB-518-201	**0**	**0.0**	**0**	**0**	**0**
SVB-518-204	**0**	**0.0**	**0**	**0**	**0**
Total:	**42,285**	**4.2**			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thomas Date: **03-22-2010**

Self-Monitoring Report
LLNL Vapor Extraction System 19 (VES19)
AREA VTF518-PZ

1. Reporting Period: Business Month **March Week: 3** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

March **13 14 15 16 17 18 19**

3. Wellfield Data:

Source	Weekly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-1615	**39,265**	**3.9**	**-13**	**68**	**168**
W-518-1913	**0**	**0.0**	**0**	**0**	**0**
W-518-1914	**0**	**0.0**	**0**	**0**	**0**
W-518-1915	**5,034**	**0.5**	**-23**	**68**	**168**
SVB-518-201	**0**	**0.0**	**0**	**0**	**0**
SVB-518-204	**0**	**0.0**	**0**	**0**	**0**
Total:	**44,299**	**4.4**			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thomas Date: **03-22-2010**

Self-Monitoring Report
LLNL Vapor Extraction System 19 (VES19)
AREA VTF518-PZ

1. Reporting Period: Business Month **March Week: 4** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

March **20 21 22 23 24 25 26**

3. Wellfield Data:

Source	Weekly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-1615	**38,578**	**3.8**	**-13.5**	**66**	**169**
W-518-1913	**0**	**0.0**	**0**	**0**	**0**
W-518-1914	**0**	**0.0**	**0**	**0**	**0**
W-518-1915	**4,061**	**0.4**	**-23.5**	**66**	**169**
SVB-518-201	**0**	**0.0**	**0**	**0**	**0**
SVB-518-204	**0**	**0.0**	**0**	**0**	**0**
Total:	**42,639**	**4.2**			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thomas Date: **03-29-2010**

Self-Monitoring Report
LLNL Vapor Extraction System 01 (VES01)
AREA VTF5475

1. Reporting Period: Business Month **January** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

December	30	31													
January	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28		

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-ETS-507	**0**	**0.0**	**0**	**0**	**0**
W-1608	**0**	**0.0**	**0**	**0**	**0**
W-1605	**0**	**0.0**	**0**	**0**	**0**
W-2211	**0**	**0.0**	**0**	**0**	**0**
W-2302	**0**	**0.0**	**0**	**0**	**0**
W-2303	**0**	**0.0**	**0**	**0**	**0**
W-2212	**0**	**0.0**	**0**	**0**	**0**
SVI-ETS-504	**0**	**0.0**	**0**	**0**	**0**
Total:	**0**	**0.0**			

4. Discharge Information:

Discharge Location	Receiving Water Station	Volume
VTF5475 Vapor Injection Well	**SVI-ETS-505**	**0**

5. Comments:

This treatment facility was shut down on 10-12-07 due to a FY 2008 funding reduction. The facility will be restarted once a solution for mixed waste generation is implemented.

6. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Kawaguchi Date: **01-28-2010**

Self-Monitoring Report
LLNL Vapor Extraction System 01 (VES01)
AREA VTF5475

1. Reporting Period: Business Month **February** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

January	29	30	31												
February	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26				

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-ETS-507	**0**	**0.0**	**0**	**0**	**0**
W-1608	**0**	**0.0**	**0**	**0**	**0**
W-1605	**0**	**0.0**	**0**	**0**	**0**
W-2211	**0**	**0.0**	**0**	**0**	**0**
W-2303	**0**	**0.0**	**0**	**0**	**0**
W-2212	**0**	**0.0**	**0**	**0**	**0**
W-2302	**0**	**0.0**	**0**	**0**	**0**
SVI-ETS-504	**0**	**0.0**	**0**	**0**	**0**
Total:	**0**	**0.0**			

4. Discharge Information:

Discharge Location	Receiving Water Station	Volume
VTF5475 Vapor Injection Well	**SVI-ETS-505**	**0**

5. Comments:

This treatment facility was shut down on 10-12-07 due to a FY 2008 funding reduction. The facility will be restarted once a solution for mixed waste generation is implemented.

6. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **02-28-2010**

Self-Monitoring Report
LLNL Vapor Extraction System 01 (VES01)
AREA VTF5475

1. Reporting Period: Business Month **March** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

February	27	28													
March	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-ETS-507	**0**	**0.0**	**0**	**0**	**0**
W-1608	**0**	**0.0**	**0**	**0**	**0**
W-1605	**0**	**0.0**	**0**	**0**	**0**
W-2211	**0**	**0.0**	**0**	**0**	**0**
W-2303	**0**	**0.0**	**0**	**0**	**0**
W-2212	**0**	**0.0**	**0**	**0**	**0**
W-2302	**0**	**0.0**	**0**	**0**	**0**
SVI-ETS-504	**0**	**0.0**	**0**	**0**	**0**
Total:	**0**	**0.0**			

4. Discharge Information:

Discharge Location	Receiving Water Station	Volume
VTF5475 Vapor Injection Well	**SVI-ETS-505**	**0**

5. Comments:

This treatment facility was shut down on 10-12-07 due to a FY 2008 funding reduction. The facility will be restarted once a solution for mixed waste generation is implemented.

6. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Kuwaguchi Date: **04-03-2010**

Attachment C

Lake Haussmann

Attachment C

Lake Haussmann First Quarter 2010 Monitoring Program Summary

This attachment summarizes sampling requirements for LLNL Environmental Protection Department for discharge from Lake Haussmann. No sampling was required during first quarter, 2010. Sampling will resume in June for the dry season. Lake Haussmann is an engineered water body that has a 37 acre-ft capacity. It is located in the central portion of the Livermore Site (Fig. C-1) and receives storm water runoff and treated ground water discharges.

Samples are collected from water discharged from Lake Haussmann and analyzed as outlined in Jackson (2002). The discharge samples are used to determine compliance with discharge limits in the *Record of Decision* (DOE, 1992), and the subsequent *Explanation of Significant Differences for Metals Discharge Limits* (Berg et al., 1997).

Dry season (June, July, August, September) discharges are sampled at each manual release or monthly during periods of continual release. Wet season (October through May) discharge samples are collected at the first release of the wet season and one other discharge in conjunction with a storm water monitoring event. Analytic results of discharge samples collected at location CDBX are compared with the LLNL Arroyo Las Positas outfall sample results collected at location WPDC (Fig. C-1). There are no analytical results for locations CDBX and WPDC because no sampling was required during first quarter, 2010.

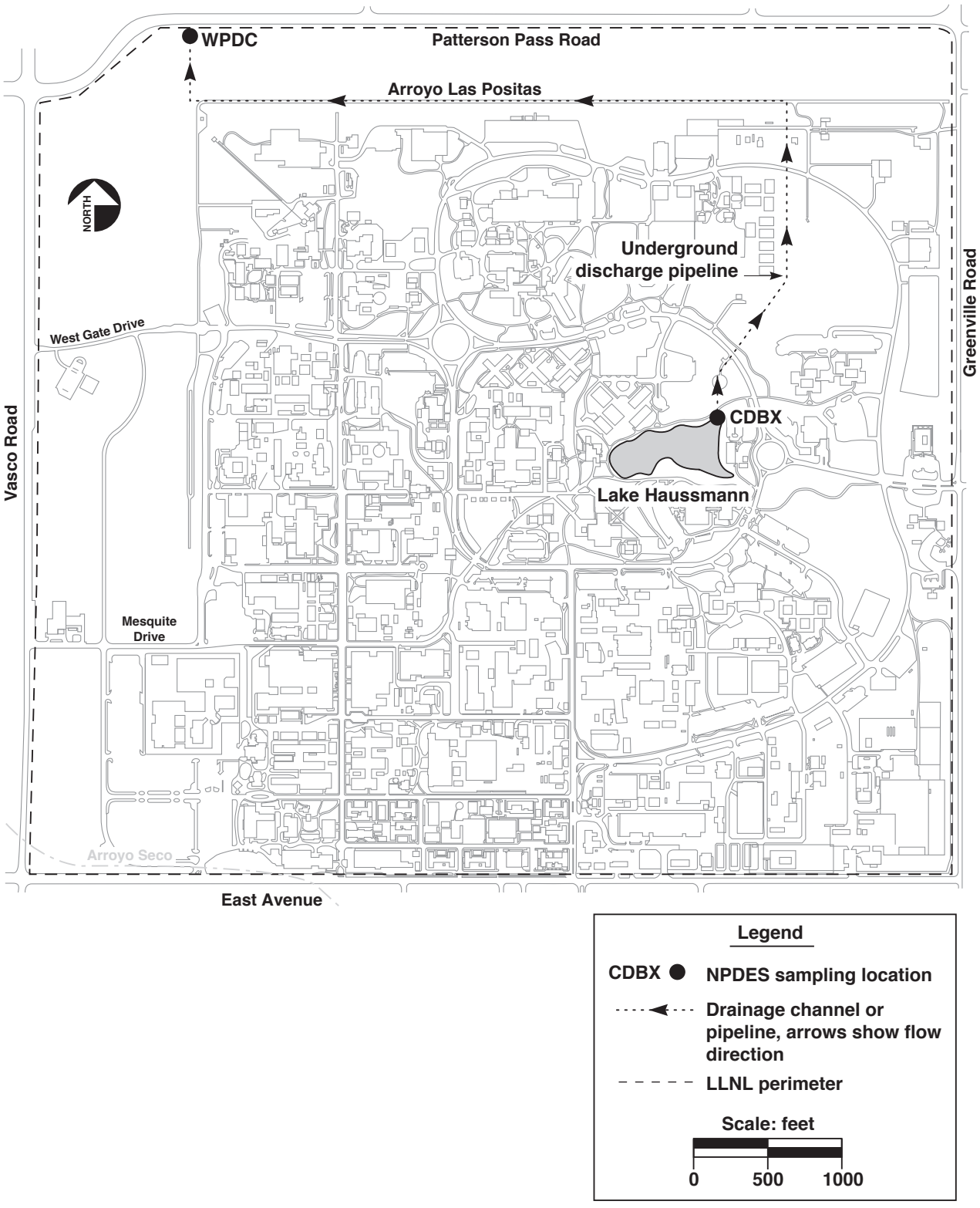
Discharge from Lake Haussmann remained continuous during the first quarter. Lake Haussmann's upper weir gate was maintained at the lowered position during the entire first quarter so that releases occurred continuously to minimize changes in surface water level and allow for a more natural ecosystem.

References

U.S. Department of Energy, *Record of Decision for the Lawrence Livermore National Laboratory, Livermore Site*, Lawrence Livermore National Laboratory, Livermore, CA, UCRL-AR-109105, (1992).

Berg, L.L., E.N. Folsom, M.D. Dresen, R.W. Bainer, and A.L. Lamarre, Eds., *Explanation of Significant Differences for Metals Discharge Limits at the Lawrence Livermore National Laboratory, Livermore Site*, Lawrence Livermore National Laboratory, Livermore, CA, UCRL-AR-125927 (1997).

Jackson, C.S., *Drainage Retention Basin Monitoring Plan Change,* Letter to Ms. Naomi Feger, San Francisco Bay RWQCB, Lawrence Livermore National Laboratory, Livermore, CA, WGMG02:175:CSJ:RW:kh, (December 6, 2002)



ERD-S3R-08-0041

Figure C-1. Location of Lake Haussmann showing discharge sampling locations.

Attachment D

Figures

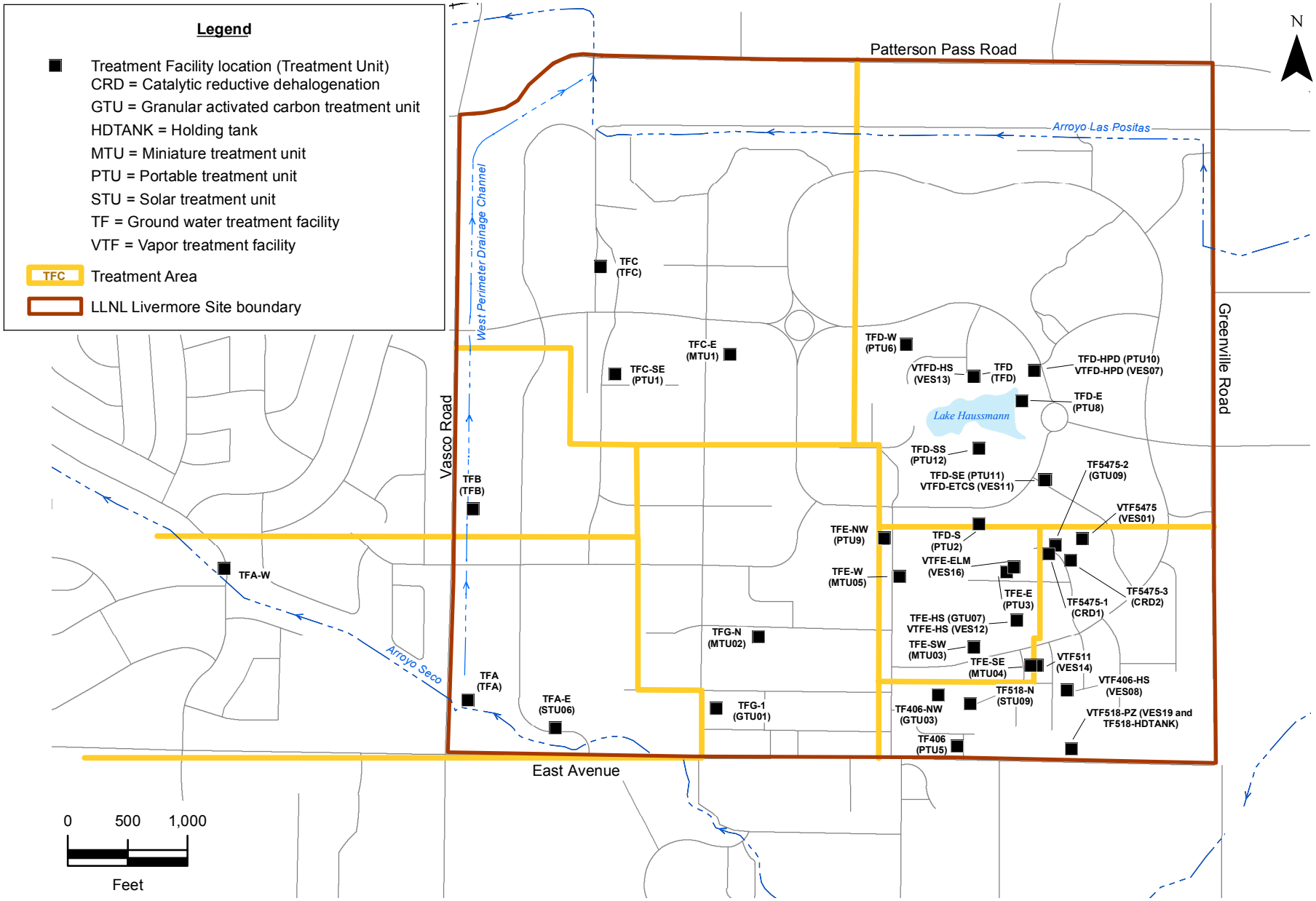


Figure 1. Livermore Site treatment areas and treatment facility locations.

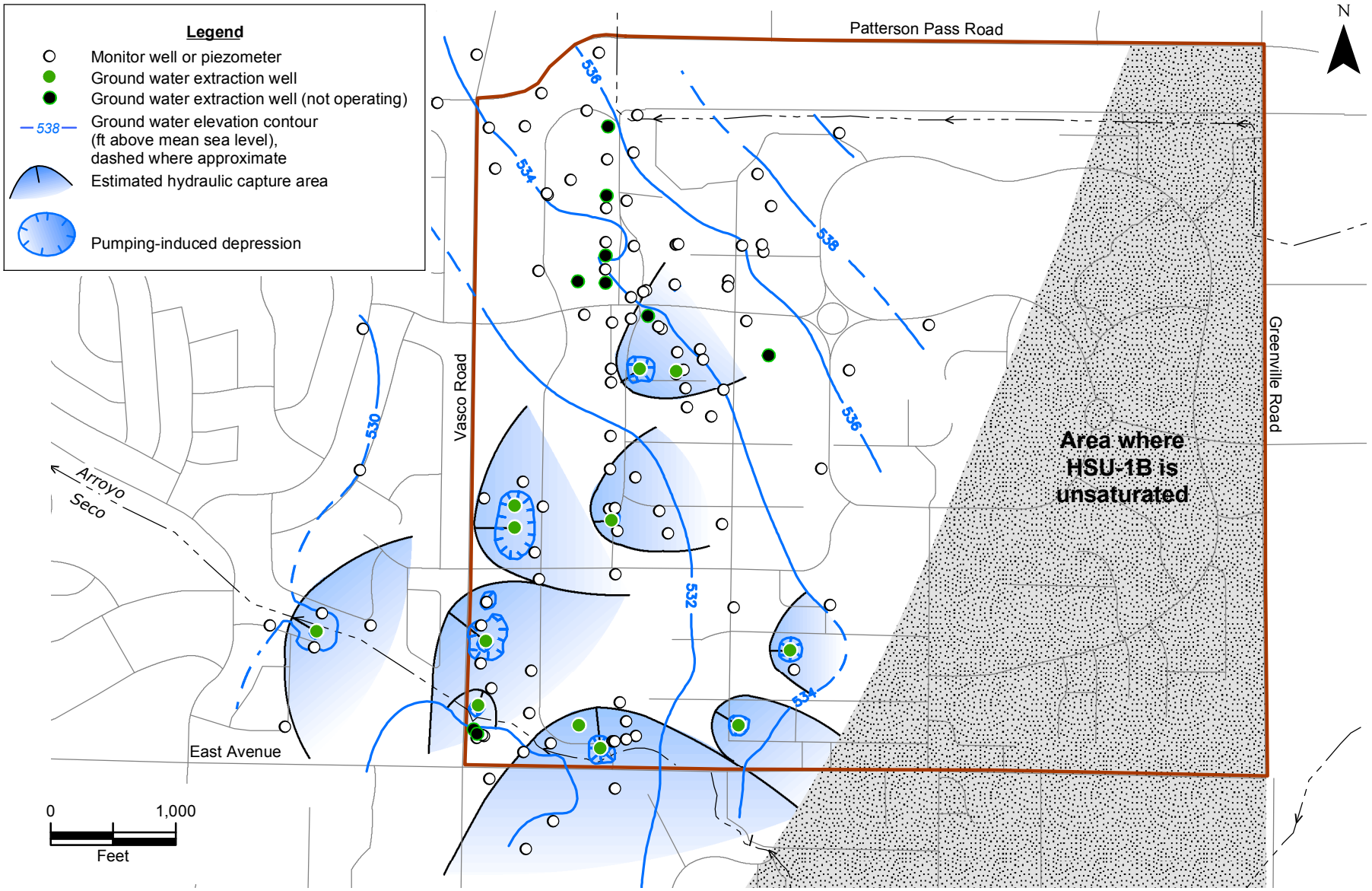


Figure 2. Ground water elevation contour map based on 125 wells completed within HSU-1B showing estimated hydraulic capture areas, LLNL and vicinity, January 2010.

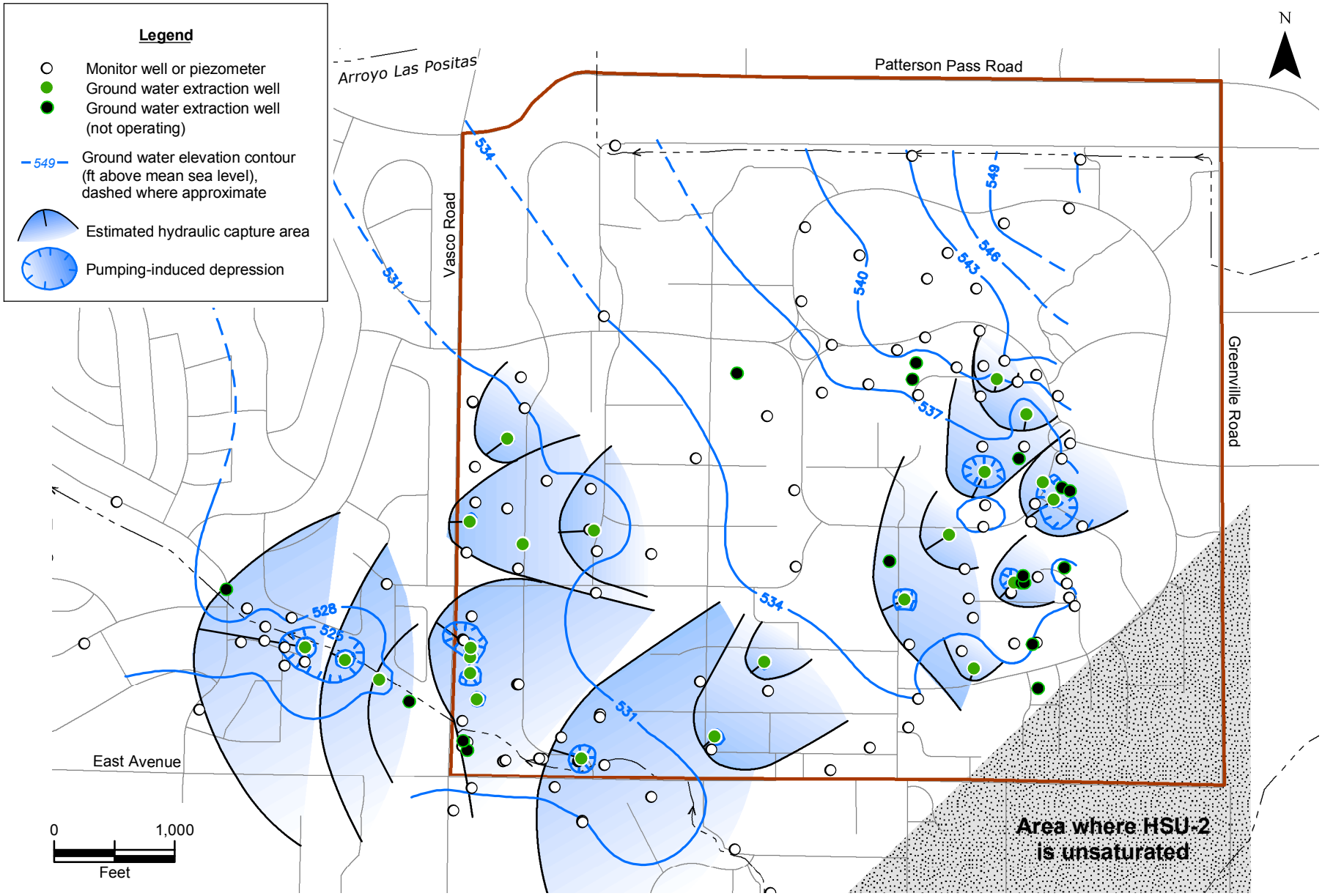


Figure 3. Ground water elevation contour map based on 161 wells completed within HSU-2 showing estimated hydraulic capture areas, LLNL and vicinity, January 2010.

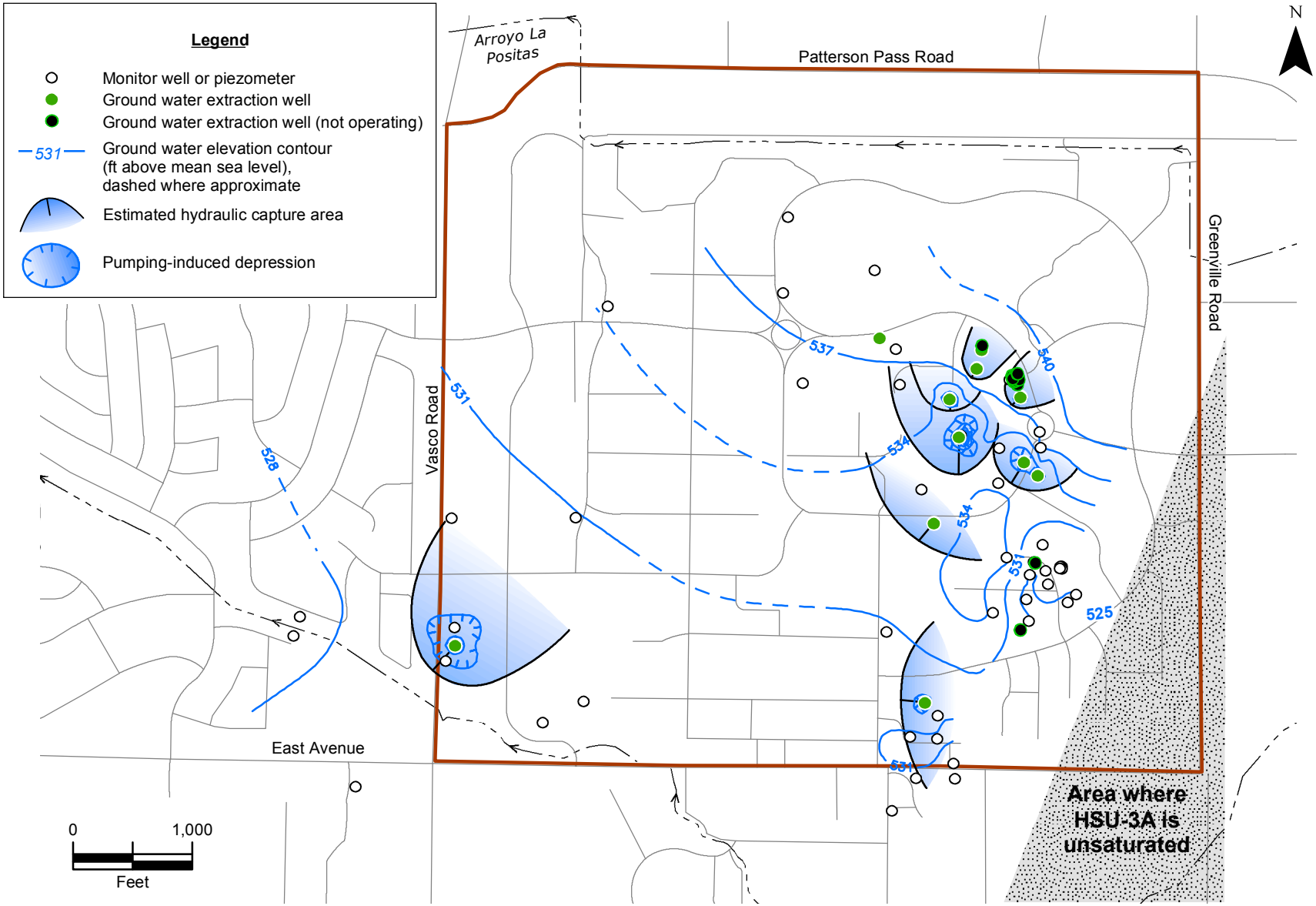


Figure 4. Ground water elevation contour map based on 71 wells completed within HSU-3A showing estimated hydraulic capture areas, LLNL and vicinity, January 2010.

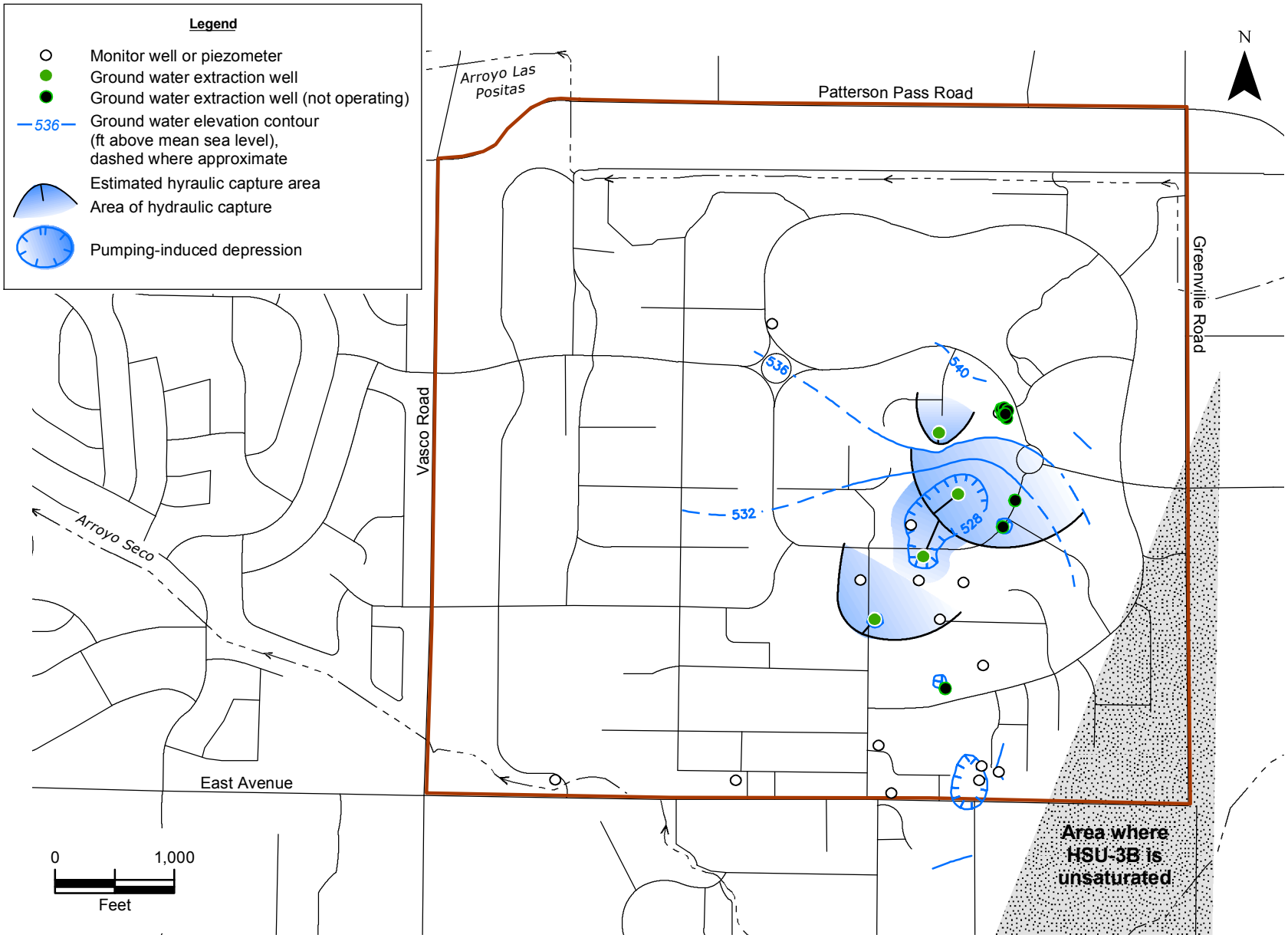


Figure 5. Ground water elevation contour map based on 29 wells completed within HSU-3B showing estimated hydraulic capture areas, LLNL and vicinity, January 2010.

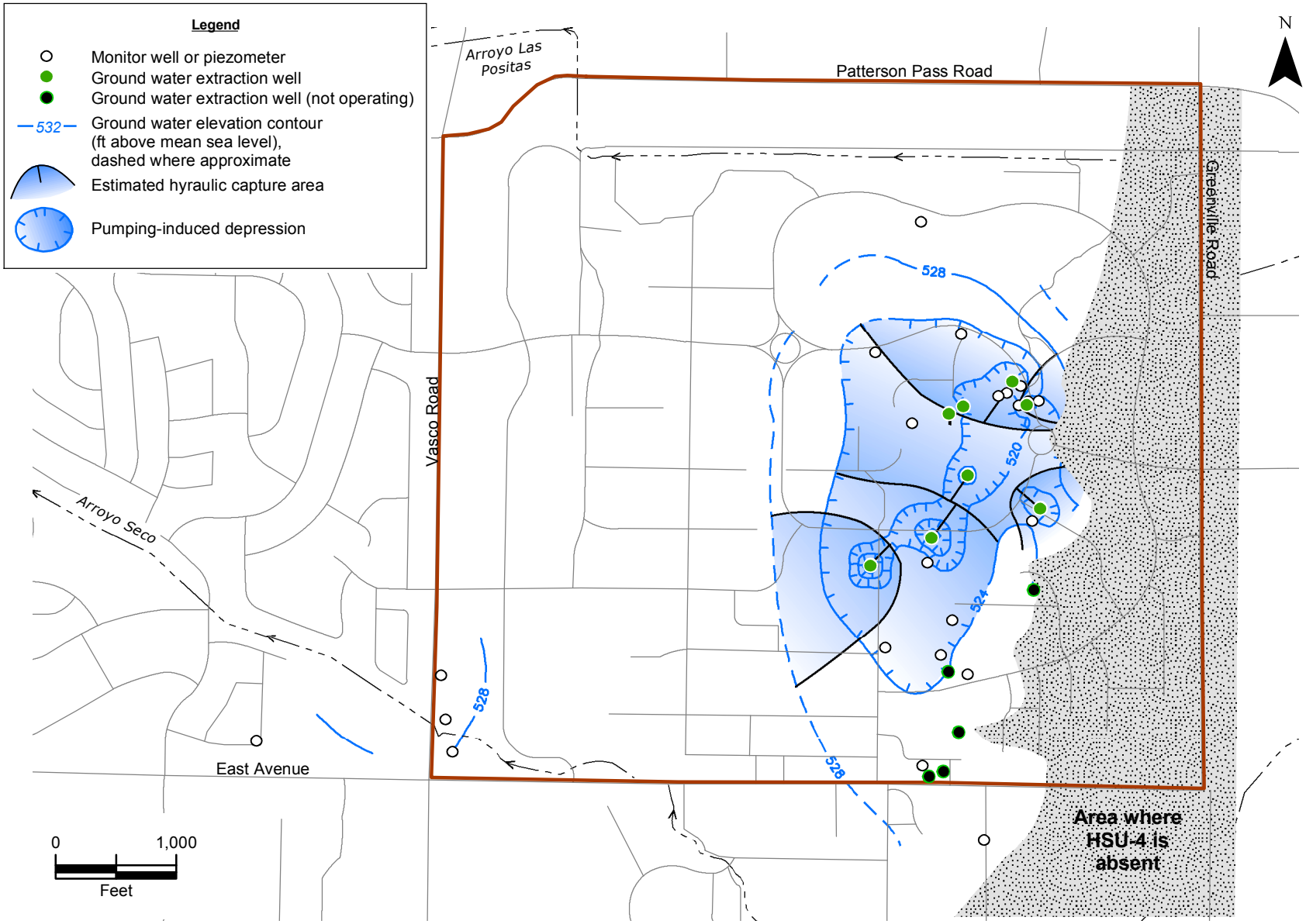


Figure 6. Ground water elevation contour map based on 36 wells completed within HSU-4 showing estimated hydraulic capture areas, LLNL and vicinity, January 2010.

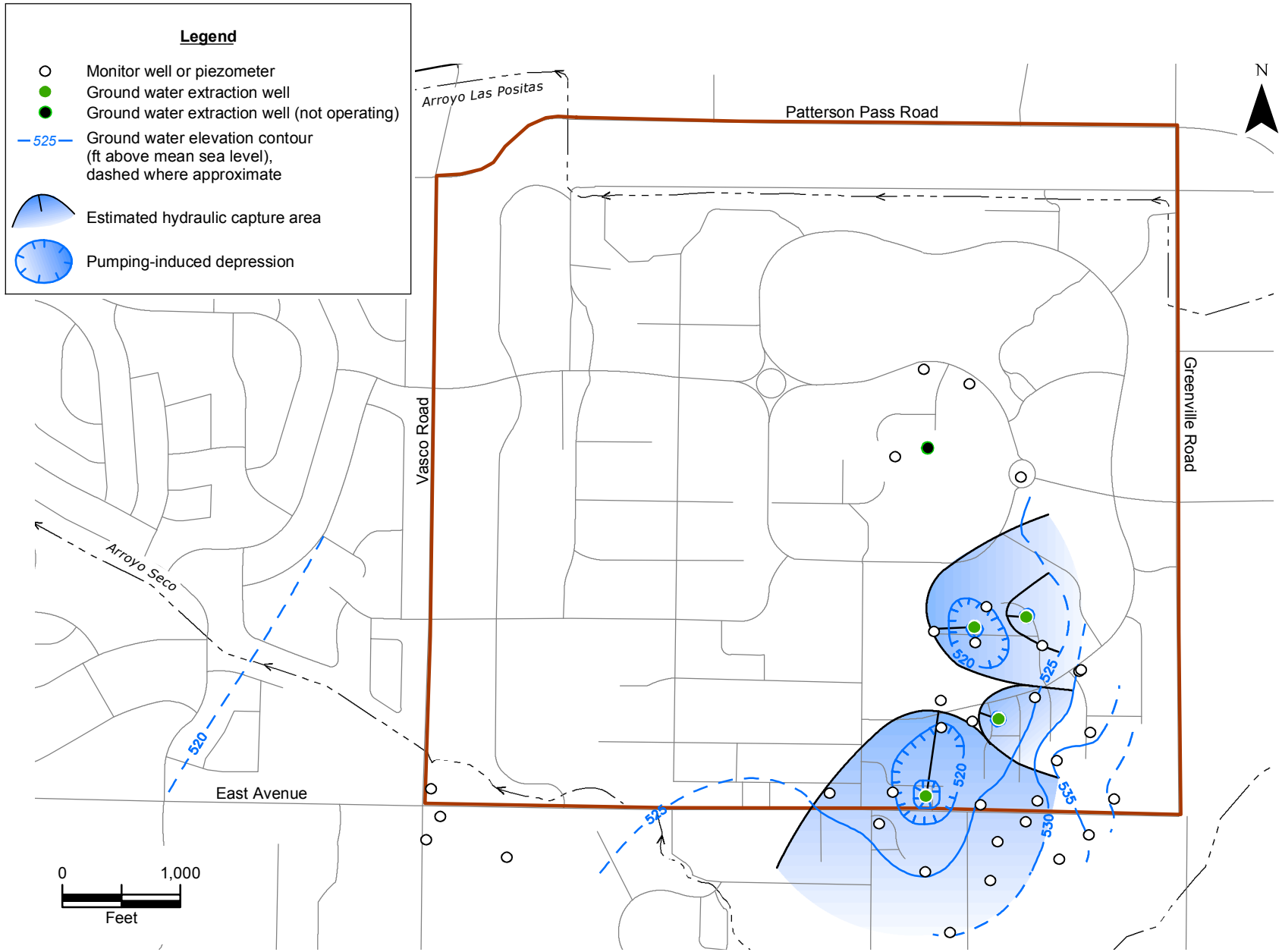


Figure 7. Ground water elevation contour map based on 39 wells completed within HSU-5 showing estimated hydraulic capture areas, LLNL and vicinity, January 2010.